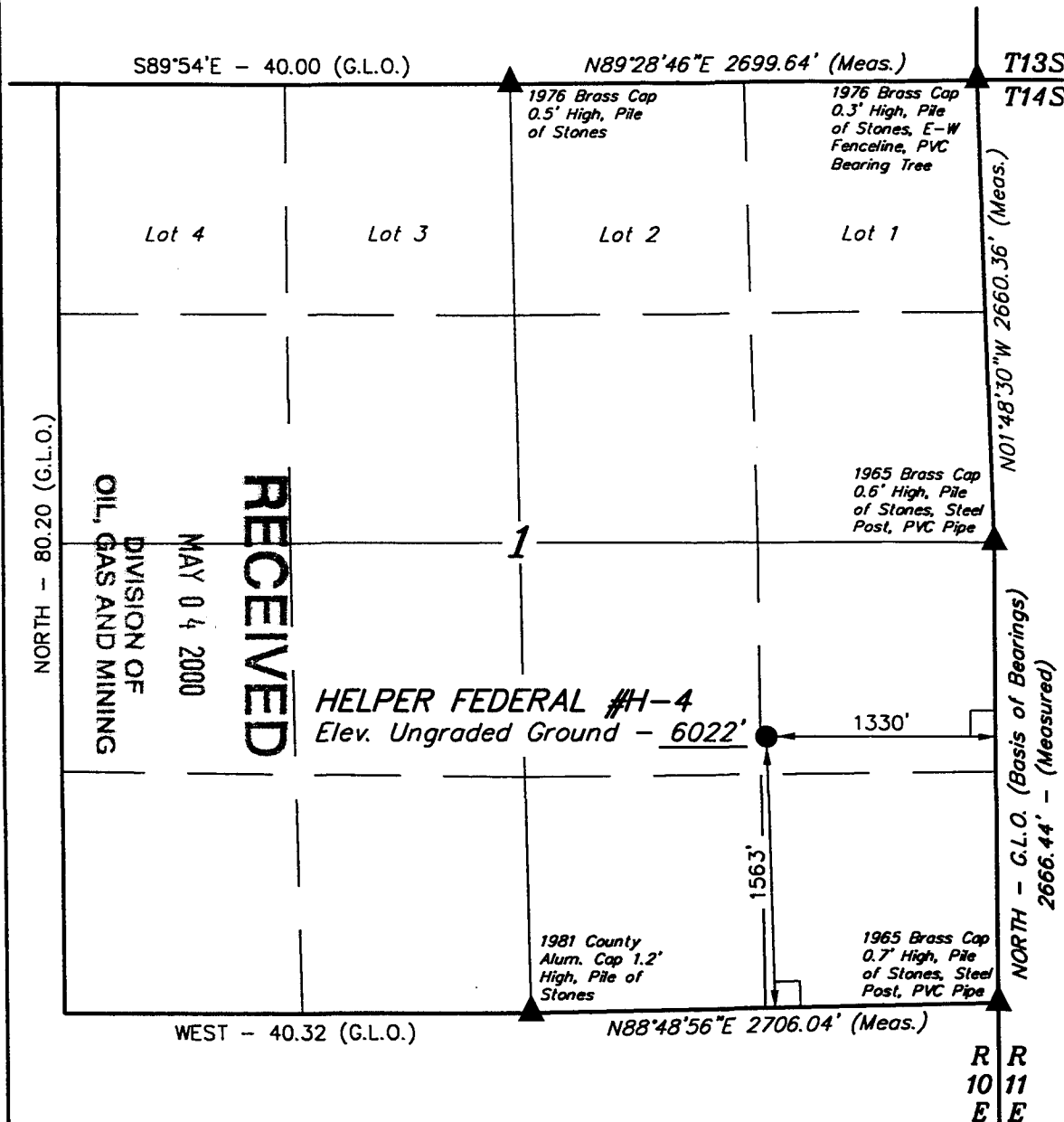


See Instructions On Reverse Side

T14S, R10E, S.L.B.&M.

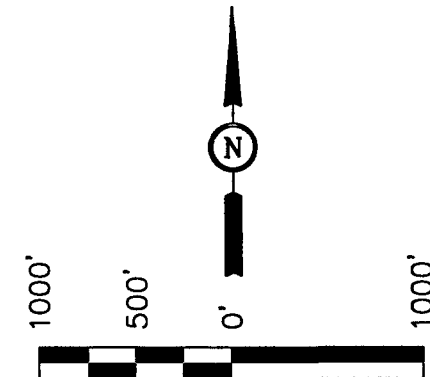


ANADARKO PETROLEUM CORP.

Well Location, HELPER FEDERAL #H-4, located as shown in NE 1/4 SE 1/4 of Section 1, T14S, R10E, S.L.B.&M. Carbon County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 1, T14S, R10E, S.L.B.&M. TAKEN FROM THE HELPER QUADRANGLE, UTAH, CARBON COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6050 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L. Hays
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
 85 SOUTH 200 EAST - VERNAL, UTAH 84078
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 4-14-00	DATE DRAWN: 4-18-00
PARTY D.K. L.J. D.COX	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE ANADARKO PETROLEUM CORP.	

May 1, 2000

Bureau of Land Management
82 East Dogwood
Moab, Utah 84532



Attention: Eric Jones

RE: Applications for Permit to Drill
Carbon County

Gentlemen:

Enclosed, in triplicate, are Applications for Permit to Drill (Form 3160-3) for the following wells in Carbon County. In addition, one copy of the application has been forwarded to the Price River Resources Area Field Office and two copies to the State of Utah Division of Oil, Gas & Mining.

Helper Federal A-4
Helper Federal C-5
Helper Federal G-1
Helper Federal G-2
Helper Federal G-3
Helper Federal G-4
Helper Federal H-3
Helper Federal H-4

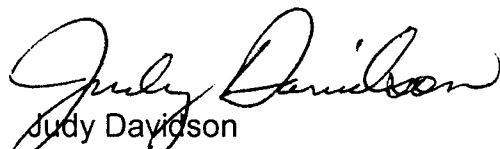
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**DIVISION OF
OIL, GAS AND MINING**

Estimated start-up date to begin drilling the first well is on or about June 1, 2000. Please call me at (281) 874-8766 if you require further information or have any questions.

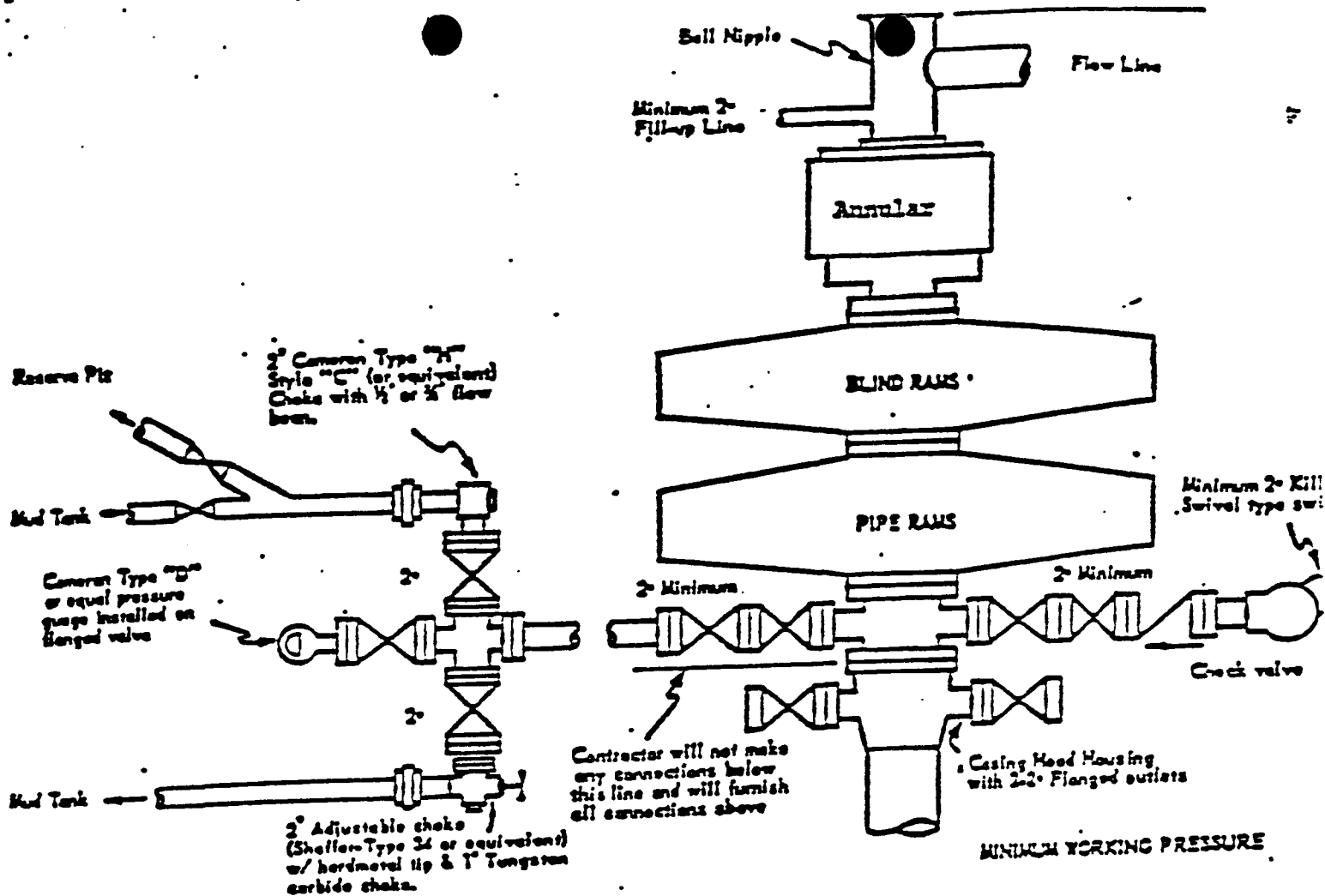
Sincerely,


Judy Davidson
Regulatory Analyst

JD/me
enclosures

cc: Bureau of Land Management
125 South, 6th West
Price, Utah 84501

State of Utah
Division of Oil, Gas & Mining
1594 West North Temple, #1210
Salt Lake City, Utah 84114



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OIL, GAS AND MINING



MINIMUM BLOWOUT PREVENTER
REQUIREMENTS - NORMAL
PRESSURE SERVICE

FORMATION TOPS AND GEOLOGIC MARKERS																			
Well Name	APC Lease No./Fed or State Lease No.	Location Mer/Twn/Rng/Sec	Footage Calls				Ground Level Elevation	Surface Formation	Depth to Bluegate Shale	Subsea Bluegate Shale	Depth to Ferron	Subsea T/Ferron	Depth to Top Coal	Subsea Top Coal	Depth to Base of Coal	Subsea Base of Coal	Depth to Tununk Shale	Subsea Tununk Shale	TD
Helper Federal A-4	UTU-58434	T13S R10E Sec. 23	2099	FSL	1007	FWL	6587	Mancos	2867	3720	3967	2620	3982	2605	4112	2475	4172	2415	4510
Helper Federal A-5	U-58434	T13S R10E Sec. 23	1151	FNL	1038	FEL	6594	Mancos	2934	3660	4034	2560	4049	2545	4179	2415	4239	2355	4580
Helper Federal A-7	U-58434	T13S R10E Sec. 22	2537	FNL	1315	FWL	6394	Mancos	2634	3760	3734	2660	3749	2645	3879	2515	3939	2455	4280
Helper Federal B-15	U-71392	T13S R10E Sec. 28	1551	FNL	1072	FEL	6534	Mancos	2374	4160	3474	3060	3489	3045	3619	2915	3679	2855	4020
Helper Federal B-16	U-71392; SL 45801	T13S R10E Sec. 28	1363	FNL	627	FWL	6171	Mancos	2071	4100	3171	3000	3186	2985	3316	2855	3376	2795	3720
Helper Federal C-2	U-71391	T13S R10E Sec. 24	1800	FNL	2019	FWL	6894	Mancos	3194	3700	4294	2600	4309	2585	4439	2455	4499	2395	4840
Helper Federal C-3	U-71391	T13S R10E Sec. 24	1500	FSL	1500	FWL	6720	Mancos	2870	3850	3970	2750	3985	2735	4115	2605	4175	2545	4515
Helper Federal C-4	U-71391	T13S R10E Sec. 24	1508	FSL	1558	FEL	6605	Mancos	2725	3880	3825	2780	3840	2765	3970	2635	4030	2575	4370
Helper Federal C-5	UTU-71391	T13S R10E Sec. 24	2009	FNL	1506	FEL	6738	Mancos	3078	3860	4178	2560	4193	2545	4323	2415	4383	2355	4725
Helper Federal C-6	U-71391; 87-01-4-00	T13S R10E Sec. 21	888	FSL	1388	FEL	6583	Mancos	2613	3970	3713	2870	3728	2855	3858	2725	3918	2865	4280
Helper Federal C-7	U-71391; 87-01-4-00; SL 45	T13S R10E Sec. 21	843	FSL	1411	FWL	6285	Mancos	2375	3910	3475	2810	3490	2795	3620	2665	3680	2605	4020
Helper Federal D-10	UTU-68315	T13S R10E Sec. 25	1500	FNL	1383	FEL	6547	Mancos	2497	4050	3597	2950	3612	2935	3742	2805	3802	2745	4140
Helper Federal D-11	UTU-68315	T13S R10E Sec. 25	995	FSL	1698	FWL	6563	Mancos	2263	4300	3363	3200	3378	3185	3508	3055	3568	2995	3910
Helper Federal D-12	UTU-68315	T13S R10E Sec. 25	1097	FSL	1225	FEL	6457	Mancos	2177	4280	3277	3180	3292	3165	3422	3035	3482	2975	3820
Helper Federal D-9	UTU-68315	T13S R10E Sec. 25	660	FNL	660	FWL	6382	Mancos	2332	4050	3432	2950	3447	2935	3577	2805	3637	2745	3980
Helper Federal E-1	430070008000	T13S R10E Sec. 29	2066	FSL	1015	FEL	6206	Mancos	2006	4200	3106	3100	3121	3085	3251	2955	3311	2895	3650
Helper Federal E-4	U-71675; SL 45801	T13S R10E Sec. 29	528	FNL	1000	FEL	6168	Mancos	2138	4030	3238	2930	3253	2915	3383	2785	3443	2725	3780
Helper Federal G-1	UTU-71677	T13S R11E Sec. 30	1320	FNL	1320	FWL	6517	Mancos	2467	4050	3567	2950	3582	2935	3712	2805	3772	2745	4125
Helper Federal G-2	UTU-71677	T13S R11E Sec. 30	800	FSL	885	FWL	6373	Mancos	2083	4290	3183	3190	3198	3175	3328	3045	3388	2985	3725
Helper Federal G-3	UTU-71677	T13S R11E Sec. 31	1931	FNL	1804	FWL	6323	Mancos	1813	4510	2913	3410	2928	3395	3058	3265	3118	3205	3460
Helper Federal G-4	UTU-71677	T13S R11E Sec. 31	980	FSL	1890	FWL	6258	Mancos	1448	4810	2548	3710	2563	3695	2693	3565	2753	3505	3100
Helper Federal H-3	UTU-72352	T14S R10E Sec. 1	1499	FSL	1650	FEL	6044	Mancos	1104	4940	2204	3840	2219	3825	2349	3695	2409	3635	2750
Helper Federal H-4	UTU-72352	T14S R10E Sec. 1	1563	FSL	1330	FEL	6022	Mancos	672	5150	1972	4050	1987	4035	2117	3905	2177	3845	2525

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DIVISION OF
OIL, GAS AND MINING

ANADARKO PETROLEUM CORPORATION (APC)
FERRON COALBED METHANE
HELPER FIELD
CARBON COUNTY, UTAH

STANDARD OPERATING PRACTICES

I. DRILLING PROGRAM

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations, (43CFR3100), Onshore Oil & Gas Orders No. 1 and No. 2, and the approved Plan of Operations. APC is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

BLM Notification Requirements (Price BLM Office – 435-636-4000):

Location Construction	48 hours before commencing
Location Completion	Prior to moving the drilling rig on site
Spud notice	24 hours before commencing operations
BOPE Test	24 hours before commencing operations
Casing & Cement	24 hours before commencing operations
First Production	Within 5 days after new well begins producing

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DIVISION OF
OIL, GAS AND MINING

1. **Estimated formation tops of important geologic markers:**

Formations and depths will be submitted with the site specific APD.

2. **Estimated Depths of Anticipated Water, Oil, Gas or other Mineral-Bearing zones:**

Formations and depths will be submitted with the site specific APD.

All useable water (<10,000 ppm TDS) zones and prospectively valuable mineral zones encountered during drilling will be recorded by depth and adequately protected. Report all water shows and water bearing formations within one day to the Price Office before running the next casing string and before plugging orders are requested. Detected water flows shall be sampled and analyzed for the following properties: Flow rate, Temperature, pH, Hardness, Iron (FE - mg/l), Calcium (Ca - mg/l), Magnesium (Mg - mg/l), Sodium (Na - mg/l), Bicarbonate (HCO_3 - mg/l), Carbonate (CO_3 - mg/l), Sulfate (SO_4 - mg/l), Chlorine (Cl - mg/l), and Total Dissolved Solids (TDS - mg/l).

Significant oil and gas shows will be tested to determine commercial potential.

3. **Pressure Control Equipment:**

A 9" 2M BOPE system will be installed on the 8-5/8" casinghead. In addition to the BOP stack, a rotating/stripping head will be installed on top of the BOP to assist in safe air drilling operations. The BOP stack will be tested prior to drilling below surface casing. The ram preventers will be tested to 70% of the working pressure of the casing head. The annular will be tested to 50% of its working pressure. Operational checks will be made daily or on trips. A BOP schematic is shown on attached Exhibit "A".

The BOP system will be consistent with API RP 53 and Onshore Order No. 2 for a 2M system. Pressure tests will be conducted before drilling out from under surface casing which is set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. BOPE will be inspected and operated to ensure good mechanical working order. This inspection will be recorded on the IADC daily drilling report. BOPE will be pressure tested before drilling casing cement plugs. The accumulator system will meet IADC guidelines concerning pump capacities, storage capacity, and reservoir volume. Closing unit fluid volume will be sufficient to pre-charge the system to operating pressure plus 50% excess. One set of controls will be in the doghouse on the rig floor and one set will be remote on the drilling pad.

4. **Casing Program:**

Surface Casing:	8-5/8", 24#, J55, STC new casing will be set at approximately 300'.
Production Casing	5-1/2" 15.5#, K-55, LTC, new casing will be set at TD if productive.

The safety factors on casing strings will equal or exceed the following values:

Collapse	1.0
Joint Strength	1.6
Burst	1.2

All casing strings below the conductor shall be pressure tested to 0.22 psi per linear foot of casing or to 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, corrective action will be taken.

5. **Cementing Program:**

Surface – Cement will be circulated to the surface. Casing will be cemented with approximately 150 sx or 180 cu. ft. of API Class 'G' neat cement.

Waiting on cement time will be adequate to achieve 500 psi compressive strength at the shoe prior to drilling out.

Production – Cement will be raised to a minimum depth of 500' above the productive interval. Casing will be cemented with Extended Class G 50:50 Pozmix cement mixed at 14.2 ppg to yield 1.59 cf/sk. Actual cement volume will be determined from the caliper log plus 15%.

Additional additives will be used to retard the cement, accelerate the cement, control lost circulation, or control fluid loss. All cementing will be done in accordance with API cementing practices.

Where usable quality water and/or prospectively valuable minerals are encountered by the well bore, those formations will be isolated and/or protected by the cement program for the production casing.

6. **Drilling Fluids Program:**

A truck-mounted air drilling rig will be used to drill the surface hole to approximately 300' in order to pre-set the surface casing before moving a drilling rig on location to drill the rest of the hole.

An air/mist system will be used for drilling from below surface pipe to TD. Upon reaching TD, the hole will be filled with produced or other available water to assist logging & cementing operations.

The following equipment will be in place and operational during air/mist drilling:

- A properly lubricated and maintained rotating head
- Spark arrestors on engines or water cooled exhaust
- Blooie line discharge 100 feet from well bore and securely anchored
- Straight run blooie line unless otherwise approved by AO
- De-dusting equipment
- A mud pump and with sufficient volume of water to fill the hole and pits

All air/mist drill cuttings will be aimed into a reserve / flare pit. In the event that gas is circulated to surface while drilling, an automatic igniter or continuous pilot light will be used to ignite the flare at the blooie line discharge.

7. **Logging, Coring, and Testing Program:**

Minimum open hole log measurements will include bulk density, gamma ray (GR), and caliper (TD to surface casing, GR- TD to surface) subject to hole conditions. If additional logging runs are proposed, it will be noted in a site specific APD.

Coring - As deemed necessary.

DST's - As deemed necessary.

Mud-Logging unit with chromatograph - As deemed necessary.

After production casing is installed, a cement bond log and GR/ casing collar log will be run to determine the top of cement and to correlate perforation depth intervals. Productive zones will then be perforated and swab tested. Water produced during testing will be contained in the temporary reserve pit. All produced oil will be stored and sold. Gas will be flared during testing.

DST/RFT, if run, will adhere to the following requirements:

Initial opening of DST tools shall be restricted to daylight hours. A DST may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which allows sufficient visibility and is vapor-proof for safe operations). Packers can be released, but tripping shall not commence before daylight unless prior approval is obtained from the Authorized Officer. Closed chamber DST's (such as RFT logging tools) may be performed day or night.

If hydrocarbon liquids are encountered during the test, surface flow shall be aborted and the remaining fluid in the drill pipe reversed to surface storage tanks. Separation & storage equipment for the anticipated recovery shall be properly installed before the test begins.

8. **Abnormal Conditions:**

Abnormal conditions such as abnormal temperatures or pressures are not anticipated. Reservoir pressure in the Ferron interval is only anticipated to be 1200 psi or equivalent a pressure gradient of 0.3 psi per vertical foot of depth.

Potential hazards such as H2S are not anticipated based on offset drilling experience.

9. **Anticipated Starting Dates and Notification of Operations:**

BLM Notification Requirements (Price BLM Office – 435-636-3600):

Location Construction	48 hours before commencing
Location Completion	Prior to moving the drilling rig on site
Spud notice	24 hours before commencing operations
BOPE Test	24 hours before commencing operations
Casing & Cement	24 hours before commencing operations
First Production	Within 5 days after new well begins producing

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in suspended status without prior approval from the Authorized Officer. If operations are to be suspended, prior approval of the Authorized Officer will be obtained and notification will be given before operations resume.

A completion rig will be used for completion operations. All conditions of this approved plan will be applicable during all operations conducted with the completion rig.

Spills, blowouts, fires, leaks, accidents, or any other unusual incidence shall be reported in accordance with the requirements of NTL-3A or its revision.

ANADARKO PETROLEUM CORPORATION (APC)
FERRON COALBED METHANE
HELPER FIELD
CARBON COUNTY, UTAH

STANDARD OPERATING PRACTICES

II. MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. **Existing Roads:**

- a. Proposed and existing wells are located within approximately 6 miles north of Price, Utah.
- b. Proposed routes to location: (Reference site specific Topographic, Access, and Area Maps provided in individual Application for Permit to Drill (APD).
- b. Location and description of roads in the area: A network of existing roads already exists within the project area. Three classes of roads will be used for access; collector roads, local roads, and access roads.
 - ***Collector Roads*** are existing roads or planned roads necessary for support of existing facilities. These roads provide access to larger blocks of land and connect with, or are an extension of an existing public road system. The design speed is 25 mph and width of travel way is 20-30 feet.
 - ***Local Roads*** are existing roads or planned roads that provide the internal access for the development of the field. The design speed is 20 mph and width of travel way is 20-24 feet.
 - ***Resource Roads*** are existing roads or planned roads that provide the final segment of access to a wellsite. The design speed is 15 mph and width of travel way is 16-24 feet.

The overall network of existing roads is displayed in Plate 2-1 of the Ferron Natural Gas Environmental Impact Statement (FNG EIS), individual access maps, and individual area maps included in the APD.

- d. Plans for improvement and/or maintenance of existing roads: The existing roads used for access to facilities will be maintained in the same or better condition as existed prior to the commencement of operations and in accordance with Figure 2-1 of the FNG EIS. Routine maintenance will be done on a year round basis or as ground and site conditions permit. Summer maintenance will involve blading and / or gravel additions. Winter maintenance will involve blading of snow and summer-like maintenance when necessary and permitted by weather conditions. Routine maintenance shall be performed during periods when soils are dry enough to adequately support construction equipment. Soils will be deemed too wet if construction equipment creates ruts more than six inches deep.

2. Planned Access Roads:

- a. Roads will be constructed using standard equipment and techniques such as the crown-and-ditch method (Surface Operating Standards for Oil & Gas Exploration and Development – USDOI / BLM 1989 3rd Edition). Heavy equipment will clear subsoil and topsoil materials from the road surface. Both materials will be windrowed (topsoil from access road construction shall be windrowed along the uphill side of the road for uses as a seed bed top coating during road rehabilitation for future redistribution during reclamation. All roads will be constructed with, adequate drainage and erosion control features/structures (e.g., cut and fill slopes and drainage ditch stabilization, relief and drainage culverts, water bars, wing ditches, and rip-rap). When needed, two to four inches of sand and gravel will be placed on newly constructed roads to provide a year round travel way surface. The maximum disturbed width will not exceed seventy feet with a twenty-four foot running surface.

During the construction and drilling phases, dust will be controlled by the use of water or an approved dust retardant, as directed by the Authorized Officer (AO). Road construction or routine maintenance shall be performed during periods when soils are dry enough to adequately support construction equipment. Soils will be deemed too wet if construction equipment creates ruts more than six inches deep. All roads will be maintained in as good or better condition than existing condition and in accordance with Figure 2-1 of the FNG EIS.

- b. Maximum grades: Maximum road grades will not exceed 15% as per FNG EIS.
- New roads will be constructed to avoid critical soil areas, where possible. Where roads must be allowed, new roads will be constructed in accordance with agency-specified design standards to minimize watershed damage.
 - On critical soils, road grades greater than 10 percent will be avoided. The Authorized Officer (BLM or FS) may allow grades in excess of 10 percent with a maximum length of 1,000 feet.
 - Road construction on slopes in excess of 25 percent will not be allowed.
- c. Location: New roads that will be constructed for access off of the existing roads are indicated on site specific Topographic, Access, and Area Maps provided in the individual APD. New roads will be designed to avoid straight line-of-sight bulldozing and will be planned through wooded areas to take a curvilinear path. Loop roads to access wells will not be used.
- d. Drainage: Roads will be designed to divert storm water runoff and reduce erosion by:
- Proper design and installation of erosion control structures, such as water bars and diversion channels.
 - Road ditch turnouts shall be equipped with energy dissipaters.
 - Use of rock energy dissipators and gravel dispersion fans or other designs where roads interrupt overland sheet-flow of water to convert this channelized runoff back to sheet flow.
 - Cut banks, road drainages and road crossings shall be armored or otherwise designed to prevent headcutting.
 - The road surface will be center crowned with ditches on each side of road. Slopes will have a maximum slope of 3:1.

2. Planned Access Roads (continued):

- f. Culverts will be used where necessary during the drilling phase of operations. Future evaluation will be made for the further additions of culverts if the road is to have long-term use. Maintain stream channel stability road crossings on channels having 10 year flows by:
- Crossing designs shall be based on cross-sections, longitudinal profile, and other pertinent physical characteristics specific to each crossing.
 - A culvert diameter of 30 inches or greater shall be engineered to allow flows to pass through the crossing at the same velocity and position (i.e., on the floodplain or in the channel) as will occur if the crossing were absent.
 - Bankfull flow shall be determined and crossings designed to pass this flow within the channel. Flows in excess of this quantity shall be channeled separately through the crossing (i.e., on the floodplain).
 - Flows shall not be converged from a floodplain into a channel when passed through by a road crossing. Multiple culverts or combination low-water crossing designs are encouraged in these circumstances.
 - Where multiple culverts are used, the minimum cumulative capacity of all culverts shall be the 10-year flow.
 - Floodplain culvert outlets shall be equipped with energy brakes and dispersion fans if needed to preserve existing flow velocity and position. Such stream crossing designs will preserve the physical dimensions of channels such as slope, width, depth, pool/riffle ratio, etc.

3. Locations of existing wells:

Reference site specific area map attached to individual APD's.

4. Location of Tank Batteries and Production Facilities:

Figure 2-5 in the FNG EIS depicts the typical production well pad and production facilities. All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match the standard environmental colors, as determined by the AO and in accordance with the FNG EIS. This will include all facilities except those required to comply with O.S.H.A. (Occupational Safety and Health Act) regulations. These will be painted the color stipulated by O.S.H.A. All facilities will be painted within six months of installation or as soon as possible when seasonal weather permits.

Gas meter runs for each well, if needed, will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The gas measurement facilities will be installed on each well location. The gas meters will be calibrated in place prior to any deliveries. Test for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter-proving schedules. A copy of the meter calibration reports will be submitted to Price Field Office.

All meter measurement facilities will conform to API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

Three types of pipelines will be used for production facilities. They are gas gathering pipelines, produced water gathering pipelines, and high-pressure gas delivery pipelines. The gas and water gathering pipelines will deliver gas and water from the well to the Central Production Facility (CPF) and produced water disposal facilities, respectively. The high-pressure pipeline will connect the CPF to gas transmission lines. Most pipelines will be buried underground. However, some pipelines may be laid above ground where rocky conditions result in more potential environmentally damaging and expensive construction methods. On critical soils, pipelines will avoid slopes in excess of 15 percent. Pipeline construction on slopes in excess of 25 percent will be determined on a site-specific basis. Site specific determinations will be made by the AO.

In general, all three pipelines will be installed in rights-of-way along access roads. Gas and water gathering lines will be placed together in the same ditch parallel to the access roads (Figure 2-1 FNG EIS). High-pressure pipelines will be installed in a separate ditch. Gas and water production pipelines will be made of polyethylene or steel pipe with a diameter of 2-20 inches. Manholes will be constructed and strategically placed to provide access for maintenance and operational purposes. Barricades painted yellow for safety will mark and protect manholes. High-pressure pipelines will be made of steel with an outside diameter of 2-10 inches.

Pipeline construction will be a planned sequence of operations along or with access roads. The path will first be cleared of trees and heavy brush by blading the surface. Where feasible, trees will be avoided. Brush and woody vegetation will be left in place and driven over as necessary. Construction will use the following steps: (1) pipe stringing, (2) trench excavation, (3) pipe lowering, (4) pipe padding, and (5) trench back filling. Materials, equipment, and techniques, including quality assurance control checks, will follow the standards for industry. The pipeline trench will be excavated mechanically with a track excavator to a depth that allows 3.5 feet of material to be placed on top of the pipeline. Trench width will range from 18-36 inches depending on number of pipelines and pipe diameters to be placed in the trench. Earthen materials will be back filled immediately following installation.

5. Location and Type of Water Supply:

Water supply for drilling and completion purposes will be furnished by a water truck and will be obtained from the Price River Municipal Water District hydrant located at 1800 East 800 North, Price, Utah. This water supply is subject to change if a more economic source can be found.

6. Source of Construction Material:

Native material will be used for road surfacing and pad construction. Should additional construction material be required, it will be the responsibility of the dirt contractor to locate and permit (if necessary) use of that material.

7. Methods of Handling Waste Disposal

All reserve pits will be lined. Produced waste water will be confined to lined pits for a period not to exceed 90-days after initial production.

Trash will be confined in covered containers and hauled to an approved landfill. Burning of waste or oil is not approved, and soil material will be kept on site for recontouring.

No bore holes will be used for disposal of waste materials. Human waste will be contained and will be disposed in accordance with county regulations.

8. Ancillary Facilities:

Not applicable for drilling operations in this area.

9. Wellsite Layout:

Construction of a well pad primarily will involve preparing a level area of approximately 1.0 – 1.4 acres. Pad size will vary depending on drilling contractor selected for the project and will be a minimum of 165 feet by 250 feet up to a maximum of 200 feet by 300 feet (Refer to site specific Location Layout plat submitted with individual APD's).

Drill pads and facility sites shall be designed and constructed to prevent overland flow of water from entering or leaving the sites through the use of berms, terraces and grading to form depressions

Where topography permits, well sites will be positioned to prevent "sky lining". Existing vegetation and topographic features will be used to screen wells, facilities, and roads from the viewshed of Key Observation Points. To eliminate broadside views of pumping units, design well locations so the pumping units are situated "in line" with Key Observation Points. When installing chain link fences, use non-reflective materials to reduce visibility from a distance.

The locations will be cleared of vegetation. Topsoil will be stripped prior to any construction and stockpiled. The pad will then be graded using standard cut-and-fill techniques of construction using a bulldozer, grader, or both. If the AO determines site-specific conditions warrant, the pad will be surfaced with sand or gravel to minimize disturbance of soils and to promote efficient drainage.

A reserve pit (maximum dimensions of 50' wide x 130' long x 8' deep) will be excavated and may be plastic lined with a liner of at least 12 mills. The AO will determine whether a plastic lined pit is necessary based on the onsite inspection.

The reserve pit will be fenced on three sides prior to drilling activity and closed off on the fourth side after drilling is finished. Fencing will be four strands of barbed wire or 48-inch woven wire with one strand of barbed wire above the woven wire. All corners will be braced. The fence construction will be on cut or undisturbed ground and the fence will be maintained in a livestock tight condition.

10. Plans for Restoration of Surface:

The Price Field Office Manager will be notified at least 24-hours prior to commencing reclamation work.

Final decommissioning, reclamation, and abandonment of the Ferron Natural Gas Project's facilities will occur at the end of the facilities' economic life. APC will reclaim and revegetate each of its facilities (well pads, roads, and central production facilities) according to accepted procedures. Although subject to revision following appropriate standards, general reclamation procedures are described next. These procedures will be finalized for each facility individually during the APD process.

Reclamation of Facilities

Reclamation of individual facilities will involve three primary components: backfilling and grading, redistributing soils, and installing structures to control erosion. Each of these components is outlined below.

Backfilling and Grading

Following decommissioning and the removal of the individual facility's surface equipment, reclamation will begin with backfilling, if necessary, and grading of the site to approximate original contours. Specifically:

- Reclamation will start immediately upon completion of construction, unless prevented by weather conditions. Disturbed areas will be restored to approximately the original contour.
- All pits will be reclaimed to a natural condition similar to the rest of the reclaimed area and must be restored to a safe and stable condition.
- Pipelines will be cleaned by filling with water or nitrogen and pigging to remove the water or nitrogen and then abandoned in place to avoid renewed surface disturbance.
- Reclamation and abandonment of pipelines and flowlines will require backfilling original cuts, reducing and grading cut and fill slopes to conform to the adjacent terrain, replacement of surface soil materials, water barring, and revegetation.
- Reclamation on sites with critical soils will be graded using slopes of 5 percent or less where feasible and grading the site so as to collect water for revegetation. Site-specific evaluation by the surface managing agency may allow for modification to this standard.
- In general, APC will leave well pads and roads on federal lands roughed up somewhat to facilitate the capture of water from precipitation.
- After well plugging and abandonment, roads constructed by APC not required for the landowner's transportation system will be closed. Reclamation may include ripping, scarifying, water barring, and barricading. Stockpiled soil, debris, and fill materials will be replaced on the roadbed.
- Water bars will be constructed on road grades or slopes, if required by BLM. Spacing of water breaks depends on slope and type of soils present. For most soil types, the following spacings will be used:

Slope	Spacing
2 percent	200 feet
2-4 percent	100 feet
4-5 percent	75 feet
>5 percent	50 feet

- Temporary erosion control measures such as mulch, jute netting, or other appropriate methods will be used on unstable soils, steep slopes, and wetland areas to prevent erosion and sedimentation until vegetation becomes established.

- Dry holes, depleted producers, and disposal wells will be abandoned according to Onshore Oil and Gas Order No. 2.
- Subsurface power lines will be abandoned in place. Above-ground powerlines will be dismantled and removed.
- Access roads will be reclaimed unless the landowner and/or land manager wishes to keep any roads and accept responsibility for future road maintenance.
- All existing recreational trails identified in the 1998 Carbon County Trails Plan that are disturbed by APC will be reclaimed to pre-development conditions upon abandonment of individual roads and locations. Reclamation of company-constructed roads throughout the Project Area will be determined by the Authorized Officer on a case-by-case basis in consultation with the County.

All disturbed areas will be subject to final grading, but will remain in rough condition to help ensure the stability of topsoil after its redistribution. Leaving the graded surface in a roughened condition will also improve moisture permeability between the soil/spoil interface. Compacted areas, such as roads, will be ripped to a depth of 4 to 12 inches.

Redistribution of Soils

After the site has been backfilled (if necessary) and regraded, topsoils and subsoils that were stripped and stockpiled before the initial construction will be redistributed across the disturbance. The timing of this redistribution will depend on completion of backfilling and grading. It will be advantageous for redistribution to occur before the fall or spring seeding windows.

Before the stockpiled topsoil and subsoil are redistributed, representative samples will be analyzed to identify their physical and chemical characteristics. These characteristics will be used to identify any amendments that may be applied to soils to facilitate the establishment of the vegetative cover.

Topsoil and subsoil will be removed from stockpiles using dozers. Subsoil, if available, will be spread evenly over disturbance using dozers working along the contour, when practical. This will be followed by redistribution of topsoil over the subsoil using the same technique and equipment.

Steep slopes may preclude redistribution along the contour in some areas. In these situations, topsoil will be graded to ensure a uniform and stable thickness consistent with reclamation and revegetation requirements. Before seeding, topsoil will be chisel-plowed to alleviate compaction and promote water infiltration.

In general, all topsoil and usable subsoil stripped and stockpiled for each facility will be redistributed evenly across that facility. In the unlikely event that a significant surplus of soil has been stockpiled in a specific location, it will be used to supplement supplies at one or more other sites where topsoils or subsoils are deficient. Additional usable soil may be recovered from areas where mapping shows that less soil or no soil is available. Recovery of this additional soil during stripping will increase the thickness of the respread.

Revegetation

Site-specific revegetation procedures for each facility will be developed by APC in coordination with the BLM (Price Field Office), UDWR, and UDOGM. Revegetation procedures and plans will meet

applicable requirements outlined in the Surface Operating Standards for Oil and Gas Exploration and Development (BLM and Forest Service 1989), the Environmental Assessment Supplement on Cumulative Impacts on Oil and Gas Categories, Price River Resource Area (BLM 1984a) and the Solid Minerals Reclamation Handbook H-3042-1 (BLM 1992).

All disturbed sites will be reclaimed and revegetated according to 43 CFR Part 3160. The overall goal of reclamation is to establish a diverse, effective, and permanent vegetation cover of the same seasonal variety and utility as the vegetation native to the affected area, and capable of supporting the planned post-well site land uses on disturbed areas. The prompt establishment of a protective plant cover and recovery of productivity levels compatible with the proposed post-well site land uses will be accomplished by implementing the reclamation plan described herein.

The revegetation plan has been designed to meet short- and long-term reclamation goals by: 1) controlling erosion and sedimentation, 2) reestablishing a vegetative cover that is ecologically comparable to native pre-disturbance conditions, and 3) restoring livestock grazing, wildlife, watershed, and aesthetic values to meet pre-operation land use objectives.

Revegetation will occur after final grading and redistribution of subsoil and topsoil activities have taken place. Revegetation communities representative of the native plant communities that existed before the disturbance occurred will be established.

Revegetation will occur in a series of steps. These steps will be:

- Disturbed areas will be revegetated after the site has been satisfactorily prepared. Site preparation may include ripping, contour furrowing, terracing, reduction of steep cut and fill slopes, water barring, or other procedures.
- Reclamation on big game crucial winter range will include hand planting of seedling browse plants and use of seedling protectors.
- On all cut slopes, seeding will extend from the bottom of the ditch to the top of the cut slope. On embankment slopes, the seeding will extend from the roadway to the toe of the slope. Seeding all borrow pit areas and all sidecast slopes in areas of full bench construction also will be seeded.
- Seedbed preparation will be conducted immediately after grading, topsoiling, and subsoiling.
- Seeding and/or planting will be repeated until satisfactory revegetation (to pre-disturbance conditions) is accomplished, as determined by the BLM or other landowner. Mulching, fertilizing (if specifically required — in general the BLM will not require the application of fertilizer), fencing or other practices may be required.
- Seeding will be coordinated with other reclamation activities to occur as soon after seedbed preparation as possible and within 90 days of soil redistribution. Interim revegetation of sites to be stabilized before permanent revegetation, such as sediment control structures or topsoil stockpiles, will be conducted as soon after construction as possible.
- Disturbances will be seeded using the appropriate revegetation mixture. Seeding will occur from October 1 to November 15 and from February 1 to March 31.
- Broadcast-seeded areas will be chained, harrowed, cultivated, dozer-tracked, or raked, as needed, to firm the seedbed and cover seed.

- Certified weed-free hay or straw mulch will be evenly spread over and crimped into the seeded area at rates dependent on seeding method and slope, as needed.
- Revegetated areas will be grazed by livestock at an approved level during the reclamation liability period.

Seedbed Preparation

Seedbed preparation will be conducted immediately after grading, subsoiling, and topsoiling, and if conducted, fertilizer application. On level to gentle slopes, the seedbed will be disked and harrowed along the contour to breakup large clods. On steeper slopes, rocky sites, or on areas too narrow to negotiate equipment, the soil surface will be left in a roughened condition. An irregular seedbed will provide microsites for plant germination and reduce soil movement on steeper slopes.

Alternative techniques include the use of barriers, check dams, erosion stops, matting, and roughened surfaces. These treatments can be implemented with various kinds of straw or hay bales, nettings, and mattings to effectively reduce overland flow. If gullies deeper than 9-inches should form, the gullies will be blocked with one of the above-mentioned treatments and given the opportunity to stabilize naturally, through the growth of vegetation.

Disk/Chisel Plowing

Before seeding, which will be initiated as soon as practical and within 90 days of final grading, topsoiled sites will be ripped or chisel-plowed to alleviate compaction and promote water infiltration. Chisel-plowing is a highly effective means of temporary stabilization prior to vegetation establishment.

Seeding Methods

Drill seeding will be used on most of the disturbed well site areas. This technique results in proper depth placement of seed and promotes good contact between seed and soil. Drill seeding will be done along the contour wherever the surface is not level.

Broadcast seeding will be employed on rocky areas, on steeper slopes, and on small disturbances. Seed will be broadcast using a manually-operated, cyclone-type, bucket spreader; a mechanical blower; or hydroseeder. Seed will be frequently mixed to discourage settling. Where practical, broadcast seeded areas will be chained, harrowed, or cultipacked to cover the seed. Where slope conditions allow, broadcast seeded areas will be dozer-tracked perpendicular to the slope. On small, isolated, or inaccessible sites, hand raking will be used to cover seed and ensure good soil-to-seed contact.

If hydroseeding is used, seed, fertilizer (if used), and mulch at a rate of approximately 250 pounds/acre will be sprayed in one application. Where hydromulching is used, a second application will spray additional mulch and a tackifier at the manufacturer's recommended application rate.

Timing of Seeding

Revegetation will occur after final grading and redistribution of subsoil and topsoil activities have taken place. Seeding will be coordinated with other reclamation activities to occur as soon after seedbed preparation as possible and within 90 days of soil replacement. Fall seeding (September to November) is recommended based on local soil moisture conditions, germination requirements of selected species, and adaptation of seed to soil temperature. Spring seeding (March to May) will be

practiced if areas are ready for revegetation and access is possible. Mixed seedings, one seeding to plant cool season plants in early fall and one seeding to plant warm season plants in spring, will be timed to avoid competition between species and avoid seed distribution problems. Interim revegetation of sites (i.e., on the topsoil storage piles to be stabilized before permanent revegetation) will be conducted as soon after construction as possible.

Mulching

Mulching aids in the control of erosion, retention of soil moisture, and addition of supplemental organic material to the soil. Mulch will be evenly distributed over the seeded area at rates dependent on seeding method and slope. Certified weed-free straw or grass hay mulch will be applied at a rate of 1 to 2 tons/acre on drill seeded areas and at least 1.5 tons/acre on steeper slopes of greater than 10 percent. Mulch will be anchored into the seedbed using a mulch crimper or disk, tackifier, or netting. If used, hydromulch will be applied at a rate of at least 1.0 tons/acre. A tackifier will be used on hydromulched areas in the fall and on areas requiring prompt stabilization. A temporary cover crop of a suitable annual grain, such as annual rye, may be seeded to control erosion until a permanent cover can be established.

Reclamation of Roads

Road locations and design criteria are developed to implement the goals of transportation planning. New road construction, or reconstruction, by APC will be performed to BLM standards consistent with the needs of the users and spelled out in the Surface Operating Standards for Oil and Gas Exploration and Development (BLM and Forest Service 1989). The BLM has designated and defined three classes of roads that may be constructed: Resource, Local, and Collector.

At the request of the landowner, roads will be retained as permanent structures or reclaimed. Roads will be reduced to the designated running surface width and the adjacent roadbed will be ripped, topsoil replaced, and the site revegetated following the cessation of operations. Natural drainage patterns will be restored, all installed crossings will be removed, roadbeds will be ripped and any cut and fills will be blended to conform to existing topography before topsoil replacement and seeding. Light use access roads that predate the well site operation will be left in their existing condition.

Seed Mixtures

APC will use seed mixes adapted to different geomorphic and environmental settings to restore vegetation communities. These mixes may be adjusted for site-specific conditions. The general mixes and the vegetation types to which they apply are:

Seed mixtures have been developed for general land types throughout the Project Area. They are based on erosion control, forage production, elevation, soils, vegetation communities and average annual precipitation zones. The mixtures show the plant species and the pounds per acre of pure live seed (PLS) to be planted.

The following seed mixture will be planted along service road borrow ditches, around the edge of drill pads with a production well, and surrounding other production and maintenance facilities. The purpose for this seeding is to provide a "green strip" buffer to minimize fire hazards and prevent invasion and establishment of noxious weeds in areas that will receive continued disturbance for the life of these areas.

Table A-1

Common Plant Name	Scientific Name	Pounds per acre (PLS)*
Forage kochia	<i>Kochia prostrata</i>	2
Wyoming big sagebrush	<i>Artemisia tridentata wyomingensis</i> var. Gordon Creek	1
Douglas low rabbitbrush	<i>Chrysothamnus viscidiflorus</i>	1
TOTAL		4

The following seed mixtures are for areas that will receive final reclamation. Areas will be planted to protect them from soil erosion and to restore forage production.

Table A-2

Common Plant Name	Scientific Name	Pounds per acre (PLS) ¹
Salt Desert Areas		
<i>Grasses</i>		
Indian ricegrass	<i>Stipa hymenoides</i>	2
Squirreltail	<i>Elymus elymoides</i>	2
Galleta	<i>Hilaria jamesii</i>	2
<i>Forbs</i>		
Lewis flax	<i>Linum perenne lewisii</i>	1
Palmer penstemon	<i>Penstemon palmerii</i>	1
Gooseberryleaf globemallow	<i>Sphaeralcea grossulariifolia</i>	0.5
<i>Shrubs</i>		
Forage kochia	<i>Kochia prostrata</i>	2
Rubber rabbitbrush	<i>Chrysothamnus nauseosus</i>	1
Fourwing saltbush	<i>Atriplex canescens</i>	2
Winterfat	<i>Krascheninnikovia (Eurotia) lanata</i>	2
TOTAL		15.5
Sagebrush/Grass Areas		
<i>Grasses</i>		
Indian ricegrass	<i>Stipa hymenoides</i>	2
Squirreltail	<i>Elymus elymoides</i>	2
Thickspike wheatgrass	<i>Elymus lanceolatus</i>	1
Crested wheatgrass	<i>Agropyron desertorum</i>	2
<i>Forbs</i>		
Lewis flax	<i>Linum perenne lewisii</i>	1
Palmer penstemon	<i>Penstemon palmerii</i>	1
Small burnet	<i>Sanguisorba minor</i>	1

Shrubs

Forage kochia	<i>Kochia prostrata</i>	2
Whitestem rabbitbrush	<i>Chrysothamnus nauseosus albicaulis</i>	1
Fourwing saltbush	<i>Atriplex canescens</i>	2
TOTAL		15

Common Plant Name	Scientific Name	Pounds per acre (PLS)¹
Pinyon-Juniper Areas		

Grasses

Thickspike wheatgrass	<i>Elymus lanceolatus</i>	1.5
Intermediate wheatgrass	<i>Elytrigia intermedia</i>	1.5
Squirreltail	<i>Elymus elymoides</i>	2
Crested wheatgrass	<i>Agropyron desertorum</i>	2

Forbs

Lewis flax	<i>Linum perenne lewisii</i>	1
Palmer penstemon	<i>Penstemon palmerii</i>	1

Shrubs

Forage kochia	<i>Kochia prostrata</i>	2
Fourwing saltbush	<i>Atriplex canescens</i>	2
Wyoming big sagebrush	<i>Artemesia tridentata wyomingensis</i> var. Gordon Creek	1
Antelope bitterbrush	<i>Purshia tridentata</i>	1
TOTAL		15

Mountain Brush Areas*Grasses*

Sheep fescue	<i>Festuca ovina</i>	2
Smooth brome	<i>Bromus inermis</i>	2
Slender wheatgrass	<i>Elymus trachycaulus</i>	2
Intermediate wheatgrass	<i>Elytrigia intermedia</i>	1.5
Russian wildrye	<i>Psathyrostachys juncea</i>	1

Forbs

Lewis flax	<i>Limum perenne lewisii</i>	1
Rocky Mt. Penstemon	<i>Penstemon strictus</i>	1
Sainfoin	<i>Onobrychis viciifolia</i>	0.5

Shrubs

Forage kochia	<i>Kochia prostrata</i>	2
Wyoming big sagebrush	<i>Artemesia tridentata wyomingensis</i> var. Gordon Creek	0.5
Antelope bitterbrush	<i>Purshia tridentata</i>	1
Mountain big sagebrush	<i>Artemisia tridentata</i> var. <i>vaseyana</i>	0.5
True Mt. Mahogany	<i>Cercocarpus montanus</i>	1

TOTAL

16

Riparian Areas*Grasses and Grasslike*

Reed canarygrass	<i>Phalaris arundinacea</i>	2
Streambank wheatgrass	<i>Elymus lanceolatus riparium</i>	4
Nebraska sedge ²	<i>Carex nebrascensis</i>	
Baltic rush ²	<i>Juncus balticus</i>	

Shrubs

Coyote willow ²	<i>Salix exigua</i>	
Skunkbush sumac	<i>Rhus trilobata</i> var. <i>trilobata</i>	2

Trees

Narrowleaf cottonwood ²	<i>Populus angustifolia</i>	
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TOTAL

8

Notes:

- Seeding rate is listed as pounds per acre of pure live seed (PLS) drilled. Rate is increased by 50 percent if broadcast seeded.
Formula: pure live seed (PLS) = % seed purity x % seed germination.
- Sedge and rush root mass plugs, willow cuttings and cottonwood bare stock plantings will be done the spring, within one month after high water flows, when the riparian water table and soil moisture will ensure planting success.

Rate of plantings per linear feet of disturbed stream bank is as follows: sedge and rush root mass plugs, one 4-inch diameter plug per 5 linear feet; willows, one cutting per linear foot; and cottonwood stock, one cluster planting of 7 trees per 25 linear feet. Individual cottonwood stock, within a planting cluster will be spaced two feet apart. The willows and cottonwoods will be planted adjacent to the stream bank in moist soil, yet above the normal water line.

Shrub seed sources will be from the states of Colorado or Utah and from areas above elevations of 4,000 feet above sea level. Seed from these sources will provide more winter tolerant plants, thus, increasing over-winter survival rates.

11. Surface and Minerals Ownership:

Unless otherwise specified in the site specific APD, The surface and the minerals are owned by the United States of America, and managed by the Department of the Interior, Bureau of Land Management.

12. Other Information:

In accordance with the Record of Decision concerning the Final Environmental Impact Statement for the Ferron Natural Gas Project, the following Environmental Protection Measures and Approval Conditions will be adhered to:

- Surface disturbances within 660 feet of springs, whether flowing or not will be avoided.

- Blasting or geophysical drilling within 0.25 mile of a spring or water well will be avoided.
- Construction on frozen or saturated soils will be avoided. The Authorized Officer (BLM or FS) will determine what is wet, muddy, or frozen based on weather and field conditions at the time. This does not apply to maintenance of existing roads and wells.
- On critical soils, construction on slopes greater than 6 percent will be avoided. Where construction cannot be avoided, operations and facilities will be located to reduce erosion and improve the opportunity for revegetation.
- In accordance with a weed control plan developed for this project, APC shall treat and control noxious weed infestations within 100 feet of disturbed areas associated with well sites and facilities and roads or rights-of-way constructed or improved by APC, to the extent the infestation is caused by APC. A list of noxious weeds can be obtained from the BLM or the appropriate County Extension Office. If pesticide or herbicide will be used, a Pesticide Use Proposal will be submitted and approved prior to application of such substances.
- Selected roads in big game winter range habitats shall be gated and signed as per the executed Gate Agreement.
- In elk and mule deer winter range (crucial and high priority), exploration, drilling, and other development shall occur only during the period of April 16 to November 30. This shall not apply to maintenance and operation of producing wells. Exceptions to this limitation in any year shall be requested in writing to the Authorized Officer of the BLM or Forest Service.
- In elk and mule deer crucial winter range, all non-emergency workover operations, as defined in the FNG EIS, shall occur only during the period April 16 to November 30. APC shall provide notice for all emergency work requiring use of heavy equipment during the winter period (December 1 to April 15). The notice shall be provided within five days of the work.
- Permanent surface disturbance and occupancy shall be prohibited within 0.5 mile of raptor nests that have been documented as occupied within the 3-year period proceeding construction. Site-specific evaluations in coordination with USFWS and UDWR may allow for modifications to this requirement.
- Permanent surface disturbance and occupancy shall be prohibited within 1.0 mile of peregrine falcon nests Section 7, Endangered Species Act consultation with USFWS shall be required for modifications to this requirement.
- Potential conflicts with coal operations shall be coordinated with the coal and the authorizing agencies.
- Spills, leaks, and contaminated soils shall be cleaned up, excavated, or treated, to prevent pollution to surface or ground waters.
- To stabilize topsoil stockpiles, any areas left disturbed for more than one year shall have stockpiles seeded with mixtures specified by the authorizing agency.
- APC shall schedule non-emergency visits to project facilities from one hour after sunrise until one hour before sunset during the big game critical winter period.
- Potential effects to significant cultural resources resulting from direct and indirect project

impacts will be mitigated through the Programmatic Agreement developed between APC, BLM, SHPO, and the Advisory Council.

- During construction activities, APC shall install signs on access roads that are also used for recreation to warn users of heavy equipment and truck traffic. Sign placement on BLM lands will be determined by the AO.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFT 3162.2 and in accordance with the EIS for the Ferron Natural Gas Project.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.2.

The dirt contractor will be provided with an approved copy of the APD & Surface Use Plan.

Drilling rigs or equipment used during drilling operations on the wellsites will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization.

Unless previously conducted, a Class III archaeological survey will be conducted on all Federal Lands. All persons will refrain from collecting artifacts and from disturbing any significant cultural resources in the area. APC is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts or fossils. APC will immediately bring to the attention of the Price Field Office Manager any and all antiquities or other objects of historic or scientific interest including, but not limited to, historic or prehistoric ruins, artifacts, or fossils discovered as a result of operations under this permit. APC will immediately suspend all activities in the area of the object and will leave such discoveries intact until told to proceed by the Price Field Office Manager. Notice to proceed will be based upon evaluation of the cultural significance of the object. Evaluation will be by a qualified professional selected by the Price Field Office Manager from a Federal Agency insofar as practical. When not practical, APC will follow the mitigation requirements set forth by the Price Field Office Manager concerning protection, preservation, or disposition of any sites or material discovered. Within five working days the Price Field Office Manager will inform APC as to:

- Whether the materials appear eligible for the National Historic Register of Historic Places
- The mitigation measures APC will likely have to undertake before the site can be used (assuming insitu preservation is not necessary); and,
- A time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate..

If APC wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the Price Field Office Manager will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, in those situations where the Price Field Office Manager determines that mitigation, data recovery and/or salvage excavations are necessary, APC will bear the cost. The Price Field Office Manager will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Price

Field Office Manager that the required mitigation has been completed, APC will then be allowed to resume construction.

FERRON NATURAL GAS WILDLIFE STIPULATIONS

The following listed stipulations have been developed for the Ferron Natural Gas Project area. These include both standardized stipulations to address known recurring issues and special stipulations to address unique or unusual circumstances or issues that were discussed at the onsite with the proponent.

BIG GAME STIPULATIONS

EPM 15: Gate and Sign Selected Roads in big game winter range habitats during Critical Period

EPM 16 & 17: Winter Seasonal restriction (December 1 to April 15) on exploration, drilling, and other development on crucial and high priority winter range. Winter Seasonal Workover Restriction

EPM 19: Critical Winter Range Browse Hand Planting (BLM-22)

EPM 20: Big Game Minimum Disturbance Corridors/Site Location Standards

EPM 21: Surface Disturbance Mitigation for Critical and High Priority Winter Range

RAPTOR STIPULATIONS

EPM 23, 24 & 26: Raptor Nest Site Protection Measures

EPM 23: Raptor Nest Site Temporary Disturbance Seasonal Closure

EPM 24: Raptor Nest Site Buffer Zone

EPM 26: Raptor Nest Site Survey

THREATENED and ENDANGERED AND BLM SENSITIVE SPECIES STIPULATIONS

EPM 25: Peregrine Falcon Nest Site Protection

EPM 27: Winkler Cactus Survey and Protection.

EPM 28: Sensitive Plant Species Survey

BLM SURVEY PROTOCOLS/SURVEY FORMS

Winkler cactus survey

Sensitive Plant Species Survey

Raptor Nest Site Survey

FERRON NATURAL GAS PROJECT AREA

PROPONENT: ANADARKO **WELL #:** HELPER FIELD

**EPM-15 GATE AND SIGN SELECTED ROADS IN BIG GAME WINTER RANGE HABITATS
DURING CRITICAL PERIOD**

Pg 1 of 1

In order to minimize adverse effects of vehicle traffic on wintering big game and in accordance with the Cooperative Agreement signed by Texaco, Anadarko, Chandler, and BLM Price Field Office, the Companies will be required to construct and maintain gate closure at site(s) selected by BLM on the access roads under this Federal permit.

Final gate placement and construction design will be provided by the authorized officer of the BLM after preliminary road construction has been completed. Although final gate placement will utilize topographic barriers to control access, construction design may require short segments of fence to tie into these natural barriers to prevent vehicle travel around the gate.

Gates shall be constructed prior to December 1 of the year that the road is constructed. Gates shall be constructed of materials that meet or exceed the type and durability, strength of powder river gates.

The Companies shall be responsible for locking all gates during the period between December 1 to April 15 of each year unless otherwise notified by BLM. They shall assure that all gates are locked throughout the specified period except as needed for ingress/egress, to avoid other users of the public land from becoming locked inside the closure areas.

The Companies shall use locks throughout the project area that are keyed for the same key (or combination) and have duplicate copy protection. The Companies shall provide two keys (or combination) to BLM as well as provide additional keys upon request for BLM to provide to other authorized users requiring access during the closure period.

FERRON NATURAL GAS PROJECT AREA

PROPONENT: ANADARKO **WELL #:** HELPER FIELD

EPM 16 & 17: WINTER SEASONAL RESTRICTION (DECEMBER 1 to APRIL 15) ON CRUCIAL AND HIGH PRIORITY WINTER RANGE.

Pg 1 of 2

Restrictions on Construction Phase Activity: Prohibit construction phase activity, described below, on big game high value and critical winter range during the period (December 1 - April 15) without regard for land ownership.

This condition would not apply to normal maintenance and operation of producing wells, described below. On nonfederal lands (where the federal government does not have either surface or subsurface ownership) the Companies would be allowed to conduct construction phase activity if needed to avoid breach of contract or loss of lease rights. In the event construction phase activity proceeds into the winter closure period on non federal interest lands, Companies would make available appropriate documentation to UDWR, upon request.

Construction Phase Activity: Construction phase activity is considered to include all work associated with initial drilling and construction of facilities through completion, including installation of pumping equipment, connection with ancillary facilities and tie-in with pipelines necessary for product delivery.

Companies would not be allowed to initiate construction activity unless it is reasonable to believe that such work can be finished to a logical stopping point prior to December 1 of that year. Specific activities considered to be covered by the seasonal closure include all heavy equipment operation including but not limited to the following:

- Mobilization/Demobilization or operation of heavy equipment (crawler tractor, front end loader, backhoe, road grader, etc.)
- Construction activity (road construction or upgrading, pad, pipeline, powerline, ancillary facilities, etc.),
- Drilling activity (Operator would not propose or initiate drilling activity if the project could not reasonably be expected to be finished to a logical stopping point by the December 1 date of that year.)
- Seismic operation, detonation of explosives

This seasonal closure would not apply to reconnaissance, survey/design and/or flagging of project work or other similar activity not requiring actions listed for heavy equipment operation.

Production Phase: A well is considered to be in production phase when the well and ancillary facilities are completed to the point that they are capable of producing and delivering product for sale. It is noted that heavy equipment operation may be necessary in the performance of maintenance and operation of producing wells.

Restriction on Non Emergency Workover Operations: The Companies will schedule non-emergency workover operations (defined below) on big game crucial and high value winter range outside the December 1 to April 15 date of the seasonal closure.

Non-emergency Workover Operations: Workover operations to correct or reverse a gradual loss of production over time (loss of production of 20 percent or less over a 60 day period) is considered to be routine or non-emergency workover operations and would not be permitted during the December 1 to April 15 time frame.

Emergency Workover Operations: Emergency work over operations are defined as downhole equipment failure problems or workover operation necessary to avoid shut in of the well or to avoid an immediate safety or environmental problem. Loss of production greater than 20 percent within a 60 day period is indicative of

FERRON NATURAL GAS PROJECT AREA

PROPONENT: ANADARKO **WELL #:** HELPER FIELD

Page 2 of 2

pump failure and will be treated as an emergency workover operation. The Companies will submit Sundry notices to BLM within five days of the emergency workover operations between December 1 and April 15.

FERRON NATURAL GAS PROJECT AREA

PROPONENT: ANADARKO

WELL #: HELPER FIELD

EPM 19: CRITICAL WINTER RANGE BROWSE HAND PLANTING

Pg 1 of 2

One or two browse species lists (checked below) are to be hand planted at the prescribed application rate and according to the following prescribed methods on critical winter range areas that are undergoing long term reclamation. This would include all pipeline corridors, berm around edge of drill pads, miscellaneous disturbed areas associated with construction such as staging areas for equipment, sidecast on road cuts, along side upgraded or new roads up to and including borrow ditch and in the termination of redundant access roads being closed. This planting shall be completed in the first planting window following reclamation.

Planting Methods:

Planting shall be accomplished using a labor force with specific experience in landscape restoration, hand planting methods and handling and care of browse tubling and or bareroot stock plants.

Browse plants to be utilized can be bareroot stock or tubling stock plants of 1 year old age class or greater.

Browse seedling protectors will be used to provided protection from browsing ungulates for two years. Seedling protectors will be of an open mesh rigid design that will break down when exposed to sunlight and that measures a minimum of 12 inches in length and 4 inches in diameter. The protectors will be secured around the browse seedlings.

Planting shall be completed in the spring (March 1- April 1) and or fall (November 1- December 1) planting windows.

Browse plants shall be stored and handled in such a manner as to maintain viability, according to the type of browse stock being used.

Planting Species and Application Rate:

<u>Species</u>	<input type="checkbox"/> Sagebrush-Grass	<input type="checkbox"/> Pinyon-Juniper
	<u>Plants Per Acre</u>	
Wyoming Sagebrush (Gordon Creek)	100	50
Fourwing Saltbush (Utah seed source collected at or above 5,000 feet elevation)	100	50
True Mountain Mahogany (Utah seed source)	0	50
Antelope Bitterbrush (Utah seed source)	0	50
Total	200	200

Suitable Substitutions:

Prostrate Kochia	yes	yes
Whitestem Rubber Rabbitbrush	no	yes
Utah Serviceberry	no	y

FERRON NATURAL GAS PROJECT AREA

PROPONENT: ANADARKO **WELL #:** HELPER FIELD

Page 2 of 2

Winterfat

yes

no

FERRON NATURAL GAS PROJECT AREA

PROPONENT: ANADARKO **WELL #:** HELPER FIELD

EPM 20: BIG GAME MINIMUM DISTURBANCE CORRIDORS/SITE LOCATION STANDARDS

Pg. 1 of 1

The subject permit application is proposed within a Big Game Minimum Disturbance Corridor (FEIS). In order to provide winter range protection for big game, the following Site Location Standards will be implemented to avoid or minimize disturbance and or occupancy within these corridors.

Based on a site specific evaluation by BLM and DWR, a well or facility may be relocated (within the limits of the 160 acre subdivision in which it is proposed.

FERRON NATURAL GAS PROJECT AREA

PROPONENT: ANADARKO **WELL #:** HELPER FIELD

EPM 21: SURFACE DISTURBANCE MITIGATION FOR CRITICAL AND HIGH PRIORITY WINTER RANGE **Pg. 1 of 1**

The subject permit application is proposed within critical and high priority winter range (FEIS) and subject to EPM 21 requiring acre for acre mitigation for surface disturbance on critical winter range. The following condition comes from a cooperative agreement between the Texaco, Anadarko, Chandler (Companies), BLM-Price Field Office, the Utah Division of Wildlife Resources and the National Fish and Wildlife Foundation. The Companies agreed to the following:

1. Contribute \$1,301.26 (1998 dollars) for each Federal interest well (Federal surface and or subsurface ownership) permitted and drilled by the Companies (or on behalf of Companies by its contractor) on big game critical winter range as depicted in the FEIS Ferron Natural Gas Project Area. (Wells meeting the above criteria for which payment will be required, will be referred to as "subject wells".) This contribution will be adjusted annually for inflation based on the Consumer Price Index (CPI), see Section II.C.6. for the reference source used for the determination of the CPI and the date in which this annual adjustment will go into effect.

Since this mitigation program is designed to address impacts of all big game critical winter range surface disturbance (roads, well pads, pipelines, etc.), contributions will be required regardless of the success or failure of the subject well to produce.

- a. The recorded date for spudding for each subject well (the first boring of a hole during the drilling of a well) will serve as the reference date triggering the requirement for the mitigation contribution.
- b. Contributions will be submitted (in the form of an Company check, cashiers check or wire transfer) directly to the National Fish and Wildlife Foundation by the 1st of August and February for all subject wells spudded in the preceding six months as reported by the Bureau.
- c. All contributions will be made payable to the "National Fish and Wildlife Foundation re, Proj 99-270" and reference the "Ferron Natural Gas Wildlife Habitat Impact Mitigation Fund".

FERRON NATURAL GAS PROJECT AREA

PROPONENT: ANADARKO WELL #: HELPER FIELD

EPM 23, 24 & 26: RAPTOR NEST SITE PROTECTION MEASURES

Pg 1 of 2

The subject permit application is proposed within or near known suitable raptor nesting habitat. In order to avoid potential adverse affects to nesting raptors protected under the Migratory Bird Treaty Act and/or the Bald Eagle Protection Act, the operator must comply with all applicable provisions below.

Provisions check marked below are directly applicable to this Federal action, based on available data at the time of this review. Any other provisions, listed below (even if not check marked) may become applicable to this Federal action as updated raptor data becomes available.

☒ **Survey Requirement:** (EPM 26) Conduct raptor surveys to determine the status of known nests and verify presence of additional nests in the affected area of this Federal action. Surveys are to be conducted by consultants qualified to conduct such surveys and approved by the authorized officer. All surveys would be conducted by helicopter during May of each year unless otherwise provided for in BLM's Raptor Survey Protocol developed for this project. The surveys are required to be completed in the same year as the proposed drilling/construction so that current nest activity status data are available prior to APD/Federal Permit approval. Cost for surveys and preparation of a report of the findings of the survey would be the obligation of the lease holder.

☒ **Raptor Nest Site Bufferzone Permanent Occupancy:** (EPM 24) Upon the finding of the above survey (or other appropriate documentation) that the federal action lies within .5 miles of a raptor nest occupied (defined below) in any of the three years preceding the proposed date of construction, the federal action would be subject to the no surface occupancy provision stated below and provided for in the Ferron Natural Gas Project FEIS.

Permanent surface disturbance and occupancy (i.e. oil and gas production facilities) is prohibited within 0.5 miles of raptor nests which have been documented as occupied within three years.

This provision will apply as long as the nest status remains unchanged (i.e. documented as occupied within any of the three years preceding the proposed date of construction. If the nest is documented as unoccupied for a period of three or more consecutive years, it will be deemed to have been abandoned and the federal action will no longer be subject to the no surface occupancy provision.

In the event a federal action involving a permanent facility, as described above, is proposed within the .5 mile bufferzone, BLM will complete a site specific evaluation. The evaluation will consider site terrain features such as topographic and vegetative screening, and existing intrusions which may already exist in the bufferzone. Specific standard guidelines used in this analysis are available in the Price Field Office. The site specific analysis and its findings will be attached to this stipulation as a recommendation to the BLM manager. If the site specific evaluation determines that the federal action can be accommodated with no significant adverse affect to the current or future productivity of the nest, the no surface disturbance/occupancy provision referenced above would not be applicable.

☒ *Site Specific Evaluation Attached* ☐ *Special Mitigation Measures Attached*

☒ **Raptor Nest Site Bufferzone Temporary Occupancy:** (EPM 23) Any temporary surface disturbance and occupancy (i.e. road and pipeline line construction, etc.) associated with this federal permit, occurring within .5 miles of a raptor nest documented as occupied in one or more of the three years preceding the proposed date of construction must be conducted outside the nesting period of February 1 to August 15. This will include but not be limited to road construction or upgrading required to reach this well location. If such

FERRON NATURAL GAS PROJECT AREA

PROPOSER: ANADARKO WELL #: HELPER FIELD

EPM 23, 24 & 26: RAPTOR NEST SITE PROTECTION MEASURES

Page 2 of 2

work is required to access this location with heavy equipment, the seasonal closure of February 1 to August 15 will also apply to the drilling of this well.

- [X] Maintenance and Operation of Existing Wells Within .5 miles of Raptor Nests: In the event a federal action is authorized and constructed and a raptor nest is subsequently built within .5 miles of the development, maintenance and operations involving workovers or heavy equipment operation under this federal action will be subject to the following conditions and notifications.

The proposer is required to submit (at least 5 days in advance of proposed work) a sundry notice for all work over or maintenance operations requiring use of heavy equipment proposed during the raptor breeding season (February 1- August 15) and within the .5 mile bufferzone of any known raptor nest site. Upon receipt of this notification BLM in consultation with DWR and the USFWS would issue a determination on the activity status of the affected raptor nest. If the nest is found to be occupied, site specific protection measures would be developed to protect the nesting raptors and prevent conditions or actions that may result or contribute to a taking as defined under the Bald Eagle Protection Act and or the Migratory Bird Treaty Act.

To avoid the necessity for this provision, the operator is encouraged to schedule all such work outside of the nesting period, on wells subject to this provision.

Occupied Nest Site Definition:

An occupied raptor nest is defined, for the purposes of this stipulation, as any nest site exhibiting physical evidence of current use by raptors. Evidence may include but is not limited to: presence of raptors (adults, eggs or young) at the nest or within the nesting territory, presence of greenery in the nest, and/or presence of current year's whitewash at the nest or in the immediate vicinity of the nest.

FERRON NATURAL GAS PROJECT AREA

PROPONENT: ANADARKO **WELL #:** HELPER FIELD

EPM 25: PEREGRINE FALCON NEST SITE PROTECTION

Pg. 1 of 1

The subject permit application is proposed within or near known suitable habitat for peregrine falcons. Permanent surface disturbance and occupancy shall be prohibited within 1.0 mile of peregrine falcon eyries. Temporary surface disturbance may be allowed between August 16 and January 31 if determined by BLM, UDWR and USFWS not to affect the peregrine falcon. Section 7, Endangered Species Act consultation with USFWS shall be required for modifications to this requirement.

The American peregrine falcon was removed from the Federal List of Endangered and Threatened Wildlife on August 25, 1999. The peregrine will be monitoring by US Fish and Wildlife Service (USFWS) for the next 13 years. A plan for the monitoring will be developed by the USFWS and will be available for public review in the near future. This stipulation will remain until the USFWS monitoring plan indicates that the protection of the peregrine falcon eyrie is no longer warranted.

FERRON NATURAL GAS PROJECT AREA

PROPONENT: ANADARKO WELL #: HELPER FIELD

EPM 27: WINKLER CACTUS PROTECTION

Page 1 of 1

"All APDs, Sundry Notices, and rights-of-way submitted for proposed wells and other surface-disturbing activities within Winkler cactus habitat shall be submitted before April 1 of any given year. This would allow the clearances for T & E plants at the optimum time. Any applications for surface-disturbing activities received after April 1 shall be held until the next year. On extremely dry years, the cactus does not surface or bloom and clearances shall be delayed until conditions are better, possibly until the next year."

The subject permit application is proposed within or near known suitable habitat for Winkler cactus (Pediocactus winklerii). In order to avoid potential adverse affects to this species, the proponent/operator must conduct surveys to determine its presence or absence in the affected area of this Federal action. Surveys must comply with BLM protocol and be conducted by qualified consultants approved in advance by BLM. The protocol includes completing surveys on the cactus between April 15 and May 15 annually. Permit applications submitted after April 1 will be held until the next year when the clearance may be reliably completed.

In the event this species is present in the affected area of this Federal Action, site modification or site specific mitigation measures will be developed by BLM and U.S.Fish and Wildlife Service to avoid or mitigate potential adverse impacts.

Site Modification: Proposed facility location will be moved to avoid physical destruction of plants or habitat modifications (i.e., runoff patterns etc.) that may affect the species.

Site Specific Mitigation: In the event physical impacts to this species can not be avoid by site modification, the Bureau would conduct a Section 7 Consultation with US Fish and Wildlife Service. If the action is approve the proponent will adhere to all mitigation required by Bureau after consultation with the US Fish and Wildlife Service. Site specific mitigation may include but is not limited to; transplanting, seed collection and hand planting seeds of the affected species etc.

FERRON NATURAL GAS PROJECT AREA

PROPONENT: ANADARKO WELL #: HELPER FIELD

EPM 28: SENSITIVE PLANT SPECIES PROTECTION

Pg 1 of 1

The subject permit application is proposed within or near known suitable habitat for special status plant species. In order to avoid potential adverse affects to these species, the proponent/operator must conduct surveys to determine presence or absence of the species checked below, in the affected area of this Federal action. Surveys must comply with BLM protocol and be conducted by qualified consultants approved in advance by BLM.

☐ Catseye Cryptantha
(Cryptantha creutzfeldtii)

☐ Western Sweetvetch
(Hedysarum occidentale var. canone)

In the event this species is present in the affected area of this Federal Action, site modification or site specific mitigation measures will be developed by BLM to avoid or mitigate potential adverse impacts.

Site Modification: Proposed facility location will be moved to avoid physical destruction of plants or habitat modifications (i.e., runoff patterns etc.) that may affect the species.

Site Specific Mitigation: In the event physical impacts to this species can not be avoid by site modification, the proponent will be required to mitigate impacts to affected plants. Site specific mitigation may include but is not limited to; transplanting, seed collection and hand planting seeds of the affected species etc.

BLM SURVEY PROTOCOLS/SURVEY FORMS

WINKLER CACTUS SURVEY PROTOCOL

Timing of Survey: Winkler Cactus (*Pediocactus winklerii*)- Surveys must be conducted during the flowering period for this species (April 15 to May 15), and only when the cactus is above ground.

Survey Method: Conduct pedestrian transects across all potential surface disturbed areas. Transects must be spaced no greater than 10 feet apart.

Survey Area: Survey area should include all potential surface disturbed areas plus the following for linear and spot disturbances. Linear disturbances (i.e. roads and pipelines) should include an area 300 feet on either side of centerline. For spot disturbances (i.e. well pads, facility locations, etc.) survey should extend 600 feet beyond anticipated disturbance.

Reporting Format and Schedule: The following documentation is required for the reporting of the findings of required surveys.

Field Survey Form Part 1: Complete separate field form for each distinct action (i.e. one for well pad #_____, one for the access road/utility corridor to well pad #_____). Field form should include the following information.

Date:

Observer:

Type of Action:

Legal Location:

Proponent Name:

Federal Application/Permit #:

Presence/Absence Declaration:

Habitat Suitability Rating:

Field Survey Form Part 2: Complete for only those surveys in which the species was present.

Population Dynamics: include phenology, total count, estimated age class breakdown (seedlings, mature, dead/dying), condition, and trend.

Map: Include 8 ½ by 11 page size map @ 1:24,000 scale depicting location of proposed facilities, location of survey area and spot symbols or polygons showing location of plant species.

Photograph: Include photographs depicting (1) general survey area where plant occurs and (2) closeup of plant.

Avoidance Recommendations: Summarize site specific recommendations to avoid impacts to special status plant species.

Field Summary Spreadsheet: Summarize survey work and findings, present, not present, affect, no affect, in a spreadsheet form. Form should include the following data elements.

Date of Survey:

Legal Location:

Federal Permit Application Number (i.e. Well #, ROW #):

Presence/Absence Notation:

Affect/No Affect Notation:

Vegetative Community Type:

Habitat Suitability Rating:

Special Notification to Authorized Officer: Notify BLM within 5 days of discovery of Special Status Plant species, where an adverse affect is noted.

SPECIAL STATUS PLANT SPECIES SURVEY PROTOCOL

Timing of Survey: Catseye Cryptantha- Surveys must be conducted during the flowering period for this species (May 1 to June 15).

Western Sweetvetch- Surveys must be conducted during the period of July 15- August 31.

Survey Method: Conduct pedestrian transects across all potential surface disturbed areas. Transects must be spaced no greater than 200 feet apart.

Survey Area: Survey area should include all potential surface disturbed areas plus the following for linear and spot disturbances. Linear disturbances (i.e. roads and pipelines) should include an area 300 feet on either side of centerline. For spot disturbances (i.e. well pads, facility locations, etc.) survey should extend 600 feet beyond anticipated disturbance.

Reporting Format and Schedule: The following documentation is required for the reporting of the findings of required surveys.

Field Survey Form Part 1: Complete separate field form for each distinct action (i.e. one for well pad #____, one for the access road/utility corridor to well pad #____). Field form should include the following information.

Date:

Observer:

Type of Action:

Legal Location:

Proponent Name:

Federal Application/Permit #:

Presence/Absence Declaration:

Habitat Suitability Rating:

Field Survey Form Part 2: Complete for only those surveys in which the species was present.

Map: Include 8 ½ by 11 page size map @ 1:24,000 scale depicting location of proposed facilities, location of survey area and spot symbols or polygons showing location of plant species.

Photograph: Include photographs depicting (1) general survey area where plant occurs and (2) closeup of plant.

Avoidance Recommendations: Summarize site specific recommendations to avoid impacts to special status plant species.

Field Summary Spreadsheet: Summarize survey work and findings, present, not present, affect, no affect, in a spreadsheet form. Form should include the following data elements.

Date of Survey:

Legal Location:

Federal Permit Application Number (i.e. Well #, ROW #):

Presence/Absence Notation:

Affect/No Affect Notation:

Vegetative Community Type:

Habitat Suitability Rating:

Special Notification to Authorized Officer: Notify BLM within 5 days of discovery of Special Status Plant Species, where an adverse affect is noted.

RAPTOR NEST SITE SURVEY/ACTIVITY STATUS PROTOCOL

Two raptor survey protocols are outlined below, addressing different levels of survey scope. The first is a protocol for a broad based intensive raptor nest site inventory. The second is an intensive survey protocol to assess activity status of a small number of known nest sites.

INTENSIVE BROAD BASED RAPTOR SURVEY PROTOCOL

Survey Timing: Surveys are to be conducted from May 10 through June 1.

Survey Area: Surveys should include all nesting habitat within .5 miles of any proposed surfaced disturbed areas.

Survey Method: Surveys shall be conducted by helicopter.

Observer Qualifications: Consultants must be qualified and experienced in raptor survey methodology and knowledgeable of raptor behavior/biology and must obtain any applicable licence or permits that may be required by the State wildlife agency.

Field Survey Data Collection: Collect following information during survey.

Map: Provide 1:24,000 scale topographic map depicting location of all raptor nest sites with spot symbols to differentiate nest type, an alpha character to differentiate species and a numeric character to differentiate between nests for survey year. It would be preferable to utilize a 5 digit number to use as the numeric designator with the survey year occupying the first 2 digits and the last three. This or some other similar system should be used to help build a chronological history of raptor nest data. With this system, only newly constructed nests would be assigned new nest numbers, data for existing nests would simply be filled in from year to year. This would reduce the time and expense of taking GIS points on every nest every year.

Spot Symbols:	Alpha Designator (Species)	N u m e r i c
Designator:		
Cliff Stick Nest +	Golden Eagle	GE
Cliff Scrape @	Redtail Hawk	RT
Tree Nest *	Ferruginous Hawk	FH
Ground Nest #	Prairie Falcon	PF

Data: Record for all nest sites observed

Activity Status: -Tended (record observed evidence; i.e. adults nearby, fresh whitewash, greenery, nest maintenance)
-Active (record number and age of young)
-Inactive-nest in good repair
-Inactive-nest in disrepair (old dilapidated)
-Unable to locate

Reporting Format and Schedule: The following documentation is required for the reporting of the findings of required surveys.

Field Survey Report Form Part 1: Complete following documentation for all survey projects.

Date (s): _____

Observer (s): _____

Type of Action: _____

Description of Survey Area: _____

Hours of Flight Time Expended: _____

Tabulate and Discuss Summary of Findings: _____

Report number (and percentage breakdown) of nests by nest type, by species, activity status, total nests surveyed, and percentage change from the previous years survey. Described how this years data compares with the previous years survey findings.

Field Summary Spreadsheet: Summarize survey work and findings, present, not present, affect, no affect, in a spreadsheet form. Form should include the following data elements.

Date of Survey:

Legal Location: (Tws. Rng. Sec. Qtr. Qtr.) and UTM

Quadrangle Map Name:

Species:

Activity Status:

Number and Age of Young in Nest:

INTENSIVE LIMITED SCOPE RAPTOR SURVEY

Follow procedures outlined for the Broad based Survey with the following exceptions:

Survey Timing: Surveys are to be conducted from April 1 to April 15.

Survey Area: Surveys should include all nesting habitat within .5 miles of any proposed surfaced disturbed areas.

Survey Method: Surveys shall be conducted by vehicle on existing established roads and trails or on foot and consist of the following minimum standards.

Complete three site visits (on separate days during the survey period, April 1- April 15) to nest site.

Each visit should consist of spending 4 consecutive hours of observation from a logical vantage point during either the morning hours (7:00-11:00 am) or evening hours (3:00-7:00 pm).

Survey should not be conducted during adverse weather conditions (ie rain, or with winds greater than 15 mph). Observers should not approach closer than .25 miles to the nest.

13. Lessee's or Operator's Representatives and Certification:

REPRESENTATIVE

Name: Bruce Darlington
Phone: 281-874-1673
Address: Anadarko Petroleum Corporation
17001 Northchase Drive
Houston, Texas 77060

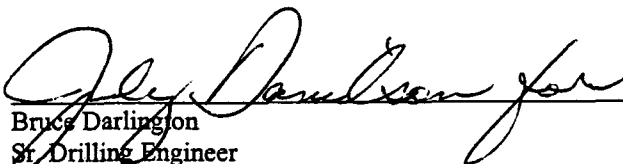
CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsites and access routes, that I am familiar with the conditions which currently exist, that the statements made in this plan are to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed by

ANADARKO PETROLEUM CORPORATION

and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

April 18, 2000



Bruce Darlington
Sr. Drilling Engineer

RECEIVED

MAY 04 2000

DIVISION OF
OIL, GAS AND MINING

ANADARKO PETROLEUM CORP.

HELPER FEDERAL #H-4

LOCATED IN CARBON COUNTY, UTAH
SECTION 1, T14S, R10E, S.L.B.&M.

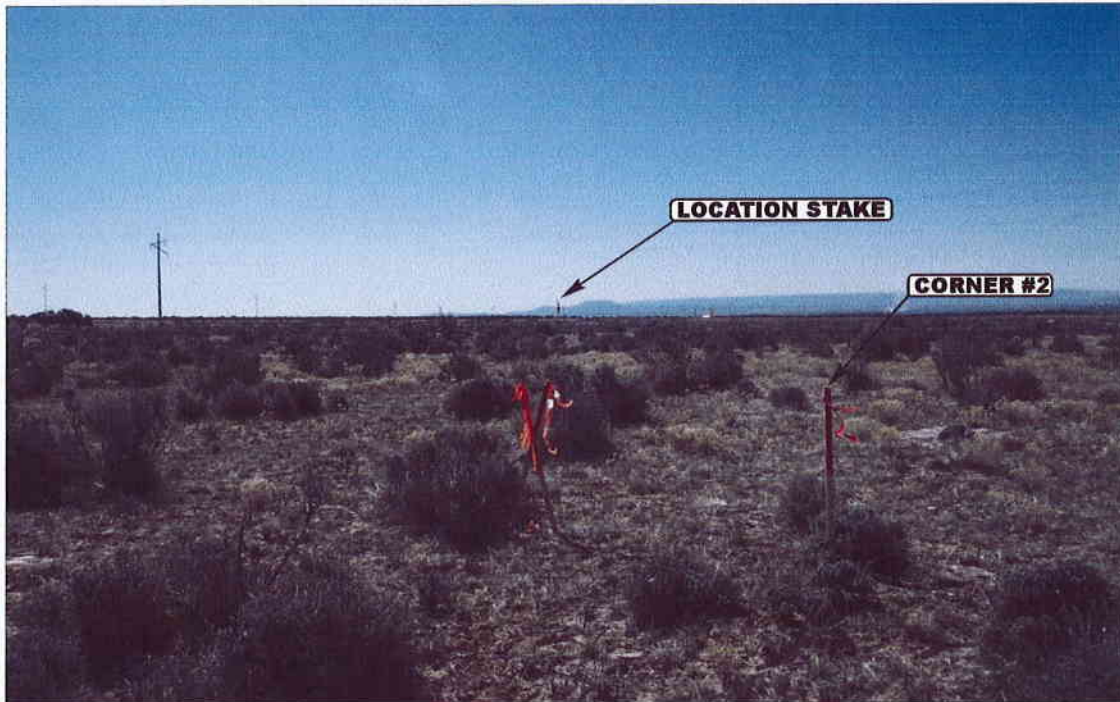


PHOTO: VIEW FROM CORNER #2 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHERLY



- Since 1964 -

UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

4 18 00
MONTH DAY YEAR

PHOTO

TAKEN BY: D.K.

DRAWN BY: J.L.G.

REVISED: 00-00-00

ANADARKO PETROLEUM CORP.

LOCATION LAYOUT FOR

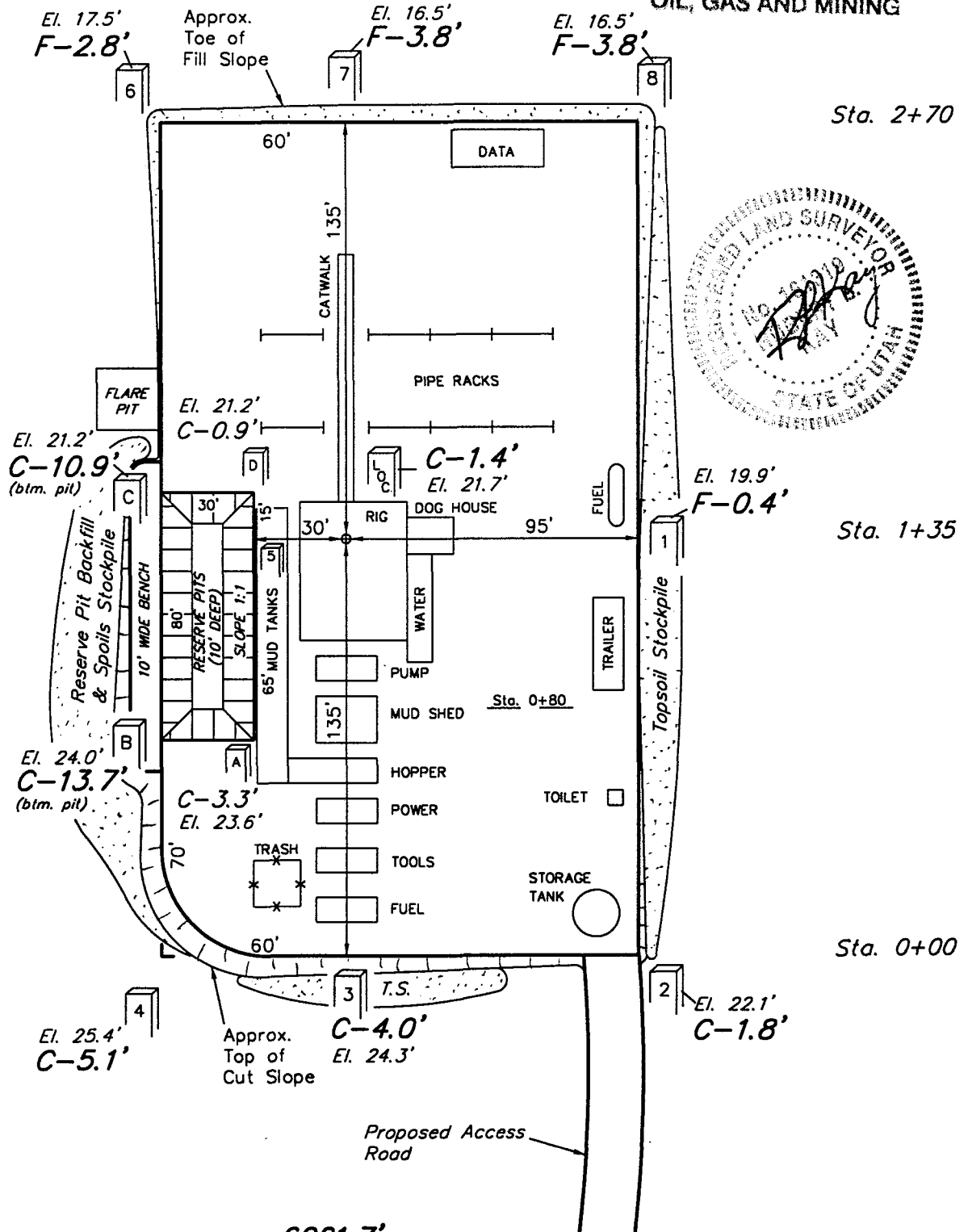
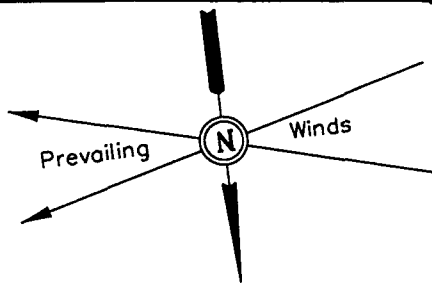
HELPER FEDERAL #H-4
SECTION 1, T14S, R10E, S.L.B.&M.
1563' FSL 1330' FEL

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MAY 04 2000

DIVISION OF
OIL, GAS AND MINING

SCALE: 1" = 50'
DATE: 4-18-00
Drawn By: D.COX



NOTE:
Pit Capacity with
2' of Freeboard
= 1,770 Bbls.

ELEV. UNGRADED GROUND AT LOC. STAKE = 6021.7'
ELEV. GRADED GROUND AT LOC. STAKE = 6020.3'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

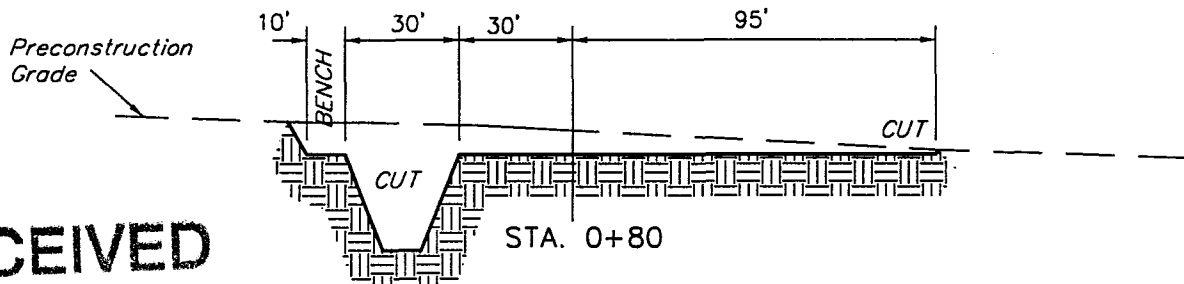
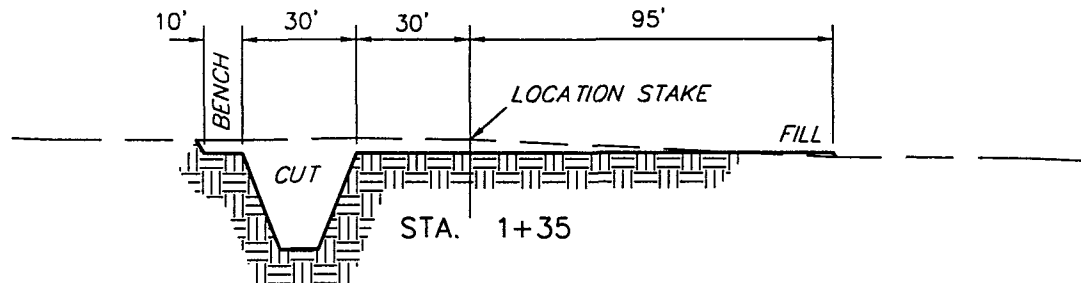
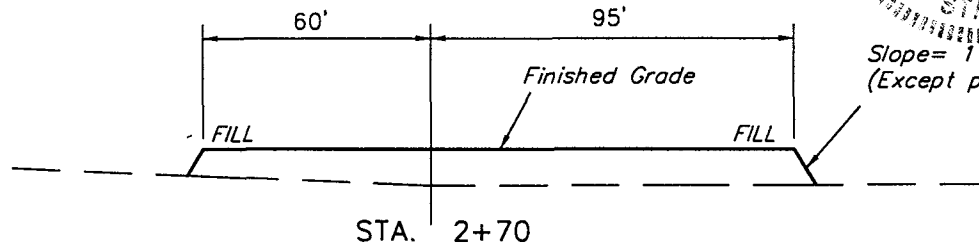
ANADARKO PETROLEUM CORP.

TYPICAL CROSS SECTIONS FOR

HELPER FEDERAL #H-4
SECTION 1, T14S, R10E, S.L.B.&M.
1563' FSL 1330' FEL

1" = 20'
X-Section
Scale
1" = 50'

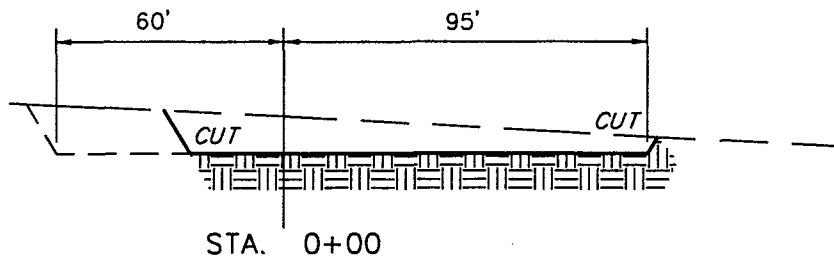
DATE: 4-18-00
Drawn By: D.COX



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APPROXIMATE YARDAGES

CUT

(6") Topsoil Stripping = 800 Cu. Yds.

Remaining Location = 2,010 Cu. Yds.

TOTAL CUT = 2,810 CU.YDS.

FILL = 1,650 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION

= 1,070 Cu. Yds.

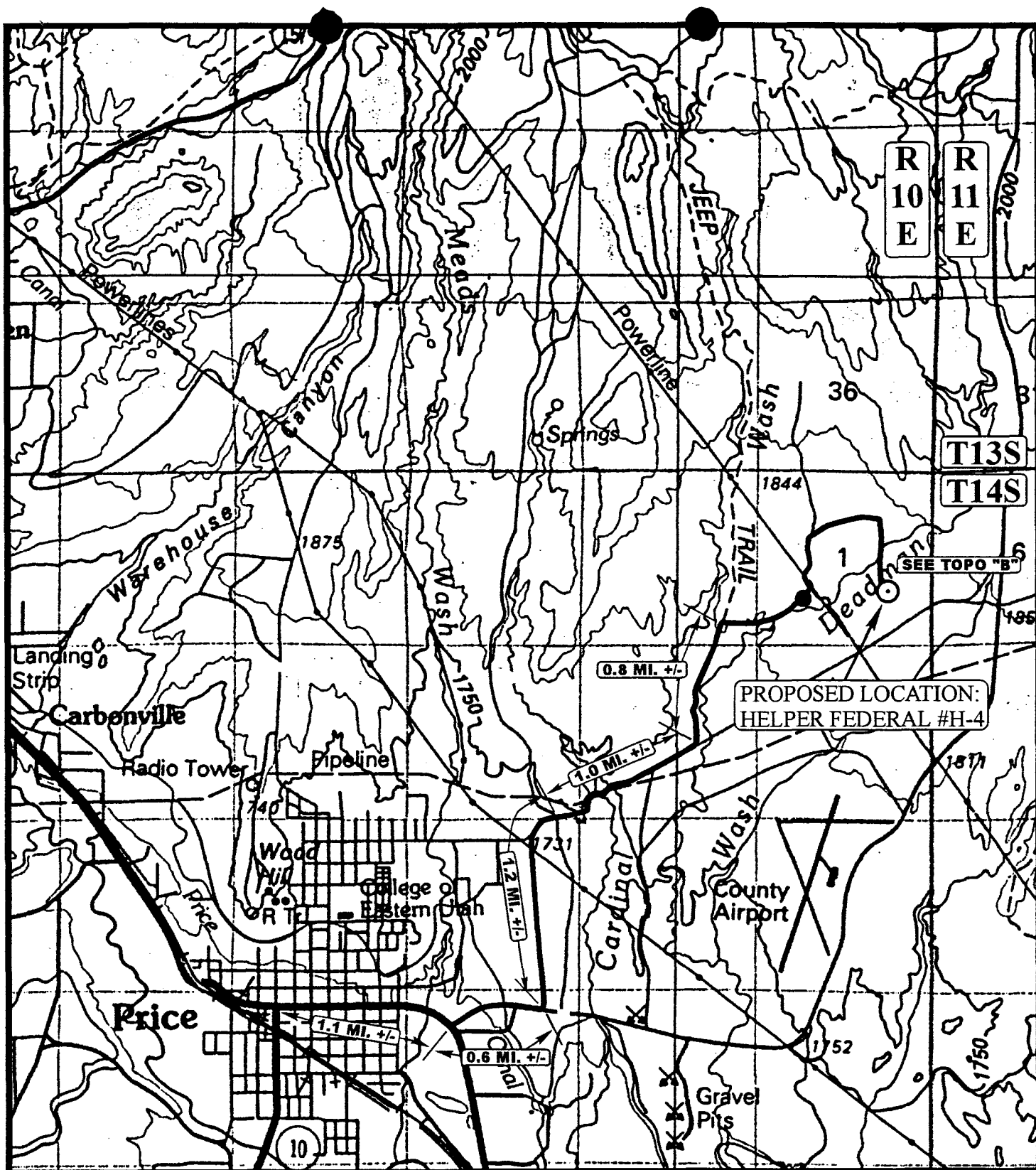
Topsoil & Pit Backfill
(1/2 Pit Vol.)

= 1,070 Cu. Yds.

EXCESS UNBALANCE
(After Rehabilitation)

= 0 Cu. Yds.

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LEGEND:

○ PROPOSED LOCATION



ANADARKO PETROLEUM CORP.

HELPER FEDERAL #H-4

SECTION 1, T14S, R10E, S.L.B.&M.

1563' FSL 1330' FEL



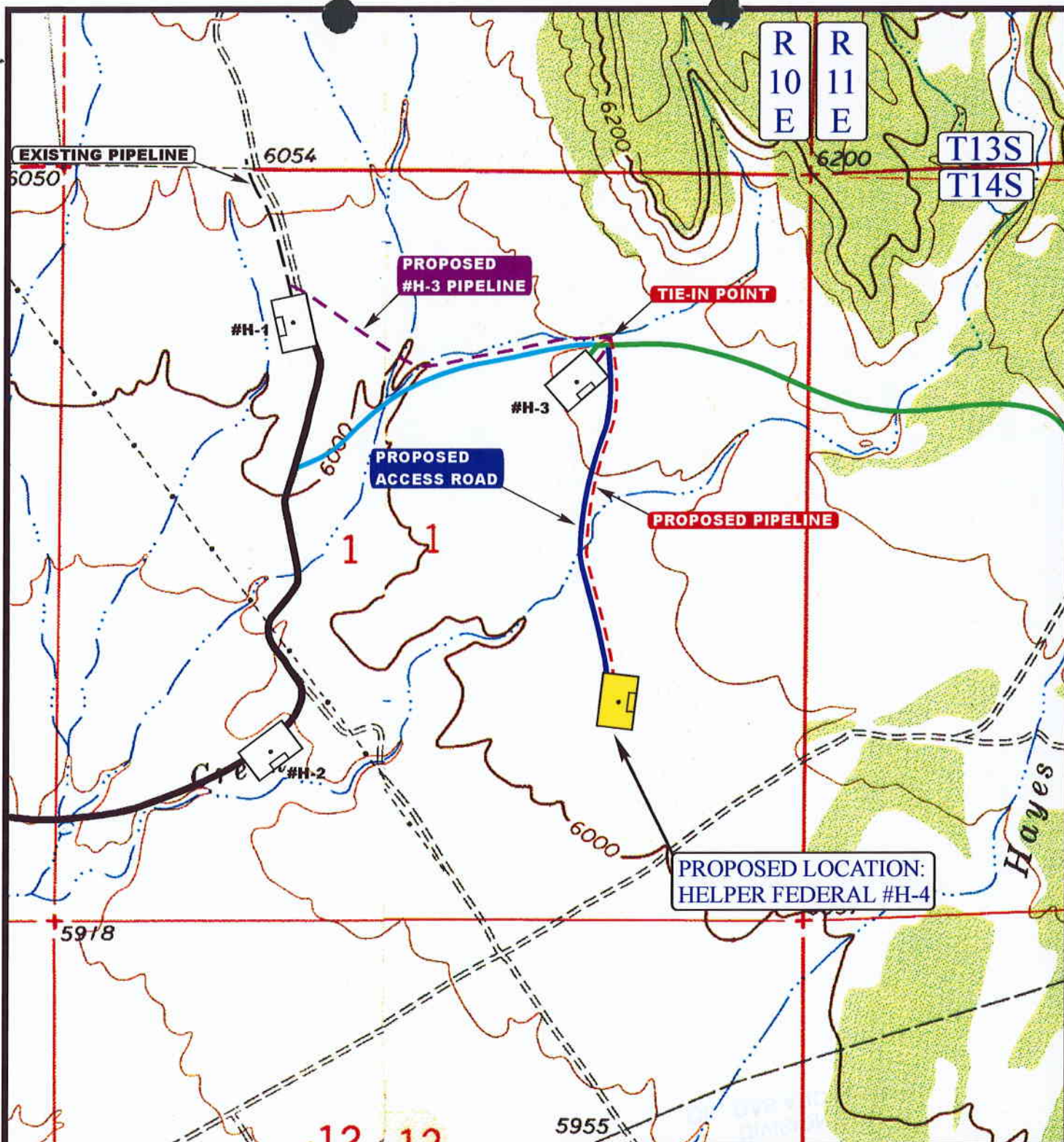
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1018

TOPOGRAPHIC
MAP

1 5 00
MONTH DAY YEAR

SCALE: 1" = 4000' DRAWN BY: J.L.G. REVISED: 4-18-00





APPROXIMATE TOTAL PIPELINE DISTANCE = 2500' +/-

LEGEND:

- EXISTING PIPELINE
- - - PROPOSED PIPELINE
- PROPOSED ACCESS

ANADARKO PETROLEUM CORP.

HELPER FEDERAL #H-4
SECTION 1, T14S, R10E, S.L.B.&M.
1563' FSL 1330' FEL



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



**TOPOGRAPHIC
MAP**

4 18 00
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: J.L.G. REVISED: 00-00-00



WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 05/04/2000

API NO. ASSIGNED: 43-007-30699

WELL NAME: HELPER FED H-4

OPERATOR: ANADARKO PETROLEUM CORP (N0035)

CONTACT: JUDY DAVIDSON

PHONE NUMBER: 281-875-1101

PROPOSED LOCATION:

NESE 01 140S 100E

SURFACE: 1563 FSL 1330 FEL

BOTTOM: 1563 FSL 1330 FEL

CARBON

HELPER (18)

LEASE TYPE: 1-Federal

LEASE NUMBER: UTU-72352

SURFACE OWNER: 1-Federal

PROPOSED FORMATION: FRSD

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. 153571)
N Potash (Y/N)
N Oil Shale (Y/N) *190 - 5 (B)
☒ Water Permit
(No. PRWID)
N RDCC Review (Y/N)
(Date: _____)
N/A Fee Surf Agreement (Y/N)

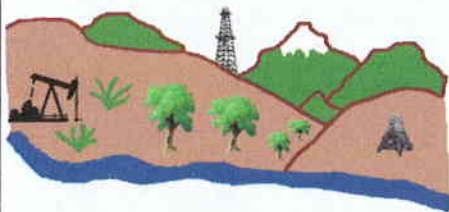
LOCATION AND SITING:

____ R649-2-3. Unit _____
____ R649-3-2. General
Siting: _____
____ R649-3-3. Exception
☒ Drilling Unit
Board Cause No: 241-1 (160')
Eff Date: 1-2-98
Siting: 460' fr. Dr. Unit boundary & 920' between wells.
____ R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS:

① FEDERAL APPROVAL



Utah Oil Gas and Mining

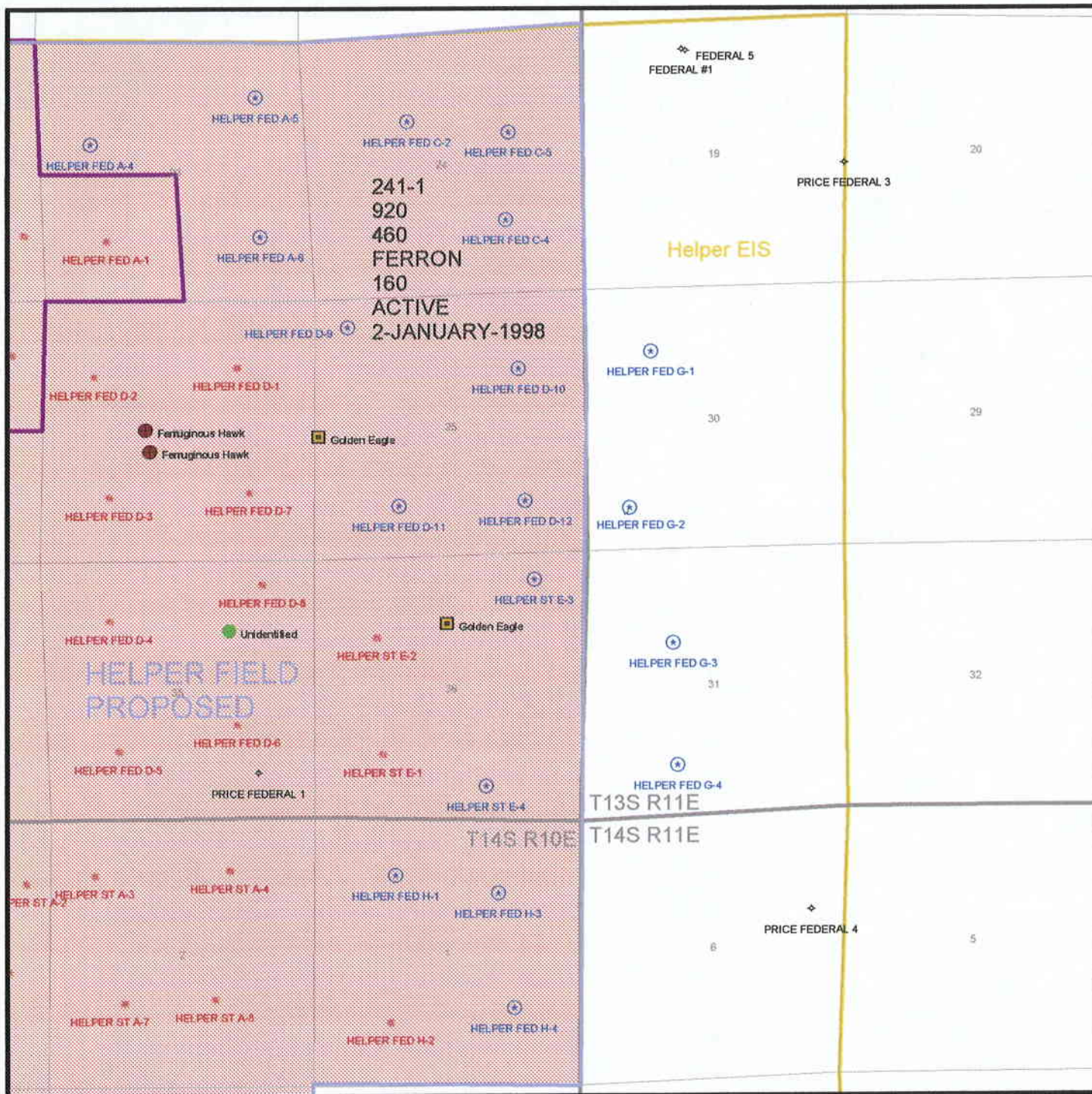
Serving the Industry, Protecting the Environment

OPERATOR: ANADARKO (N0035)

FIELD: HELPER (018)

S EC. 23 & 24, T13S, R10E, & 30 & 31,
T13S, R11E, & 1, T14S, R10E

COUNTY: CARBON CAUSE No: 241-1 160
ACRES & STATE



PREPARED
DATE: 5-MAY-2000



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

May 9, 2000

Anadarko Petroleum Corporation
17001 Northchase Drive
Houston, Tx 77060

Re: Helper Federal H-4 Well, 1563' FSL, 1330' FEL, NE SE, Sec. 1, T. 14S, R. 10E,
Carbon County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-007-30699.

Sincerely,

John R. Baza
Associate Director

er

Enclosures

cc: Carbon County Assessor
Bureau of Land Management, Moab District Office

Operator: Anadarko Petroleum Corporation
Well Name & Number Helper Federal H-4
API Number: 43-007-30699
Lease: UTU-72352
Location: NE SE Sec. 1 T. 14S R. 10E

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338
- Contact Robert Krueger at (801) 538-5274.

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval which must be obtained prior to drilling.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Submit in triplicate*
(Instructions on
reverse side)

Form approved. *2000-63*
Budget Bureau No. 1004-0136
Expires: December 31, 1991

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1 a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. UTU-72352		
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> <input checked="" type="checkbox"/> OTHER - COALBED METHANE SINGLE ZONE <input type="checkbox"/> MULTIPLE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEES OR TRIBE NAME		
2. NAME OF OPERATOR ANADARKO PETROLEUM CORPORATION			7. UNIT AGREEMENT NAME		
3. ADDRESS AND TELEPHONE NO. 17001 Northchase Drive, Houston, Texas 77060 281/875-1101			8. FARM OR LEASE NAME WELL NO. Helper Federal H-4		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1563 FSL 1330 FEL, SE Section 1, T14S R10E NWSE At proposed prod. zone 1563 FSL 1330 FEL, SE Section 1, T14S R10E			9. API WELL NO. 43-007-30699		
CONFIDENTIAL			10. FIELD AND POOL OR WILDCAT Helper CBM		
			11. SEC. T.R.M. OR BLK. AND SURVEY OR AREA Section 1, T14S R10E		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE. 6 miles NE of Price, Ut			12. COUNTY Carbon		13. STATE Utah
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1330'		16. NO. OF ACRES IN LEASE 641'		17. NO. OF ACRES ASSIGNED TO THIS WELL. 160	
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE. FT. 2300'		19. PROPOSED DEPTH 2525'		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6022' GL				22. APPROX. DATE WORK WILL START. 06/01/2000	
23. PROPOSED CASING AND CEMENTING PROGRAM					
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	
11"	8 5/8" J-55	24#	300'	180 cu. Ft.	
7-7/8"	5-1/2" K-55	15.5#	2525	250 cu. Ft.	

Attached is the following:

1. Survey Plat
2. BOP Schematic, Figure 1-1
3. Topo & Access Map & Area Map.
4. Pit & Pad Layout with cross sections of pit, pad, & rig layout.
5. Estimated Formation tops and geologic markers

NOTE: Master Standard Operating Practices Plan for the Helper Field, Carbon County, UT.
(previously submitted and approved) part of this APD.

Nationwide BLM Oil & Gas Lease Bond Number 153571
Utah Oil & Gas Lease Bond 224351 (expiration date 06-30-2000)
Utah Bond of Lessee 203521

CONDITIONS OF APPROVAL ATTACHED

IN ABOVE SPACE, DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. *Judy Davidson* Judy Davidson
SIGNED TITLE Regulatory Analyst DATE 05/01/2000
(This space for Federal or State office use.)

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL IF ANY:

APPROVED BY */s/ WILLIAM C. STRINGER* Assistant Field Manager,
Division of Resources DATE JUN 28 2000

See Instructions On Reverse Side

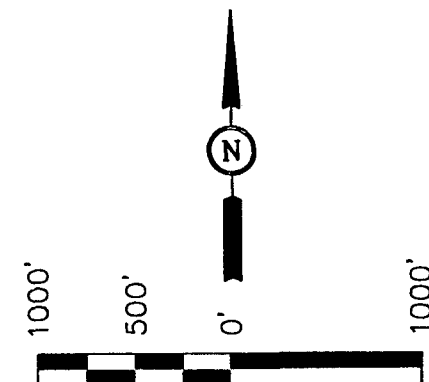
T14S, R10E, S.L.B.&M.

ANADARKO PETROLEUM CORP.

Well Location, HELPER FEDERAL #H-4, located as shown in NE 1/4 SE 1/4 of Section 1, T14S, R10E, S.L.B.&M. Carbon County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 1, T14S, R10E, S.L.B.&M. TAKEN FROM THE HELPER QUADRANGLE, UTAH, CARBON COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6050 FEET.



SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L. Key
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 4-14-00	DATE DRAWN: 4-18-00
PARTY D.K. L.J. D.COX	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE ANADARKO PETROLEUM CORP.	

NORTH - 80.20 (G.L.O.)

RECEIVED
JUL 03 2000
DIVISION OF
OIL, GAS AND MINING

HELPER FEDERAL #H-4
Elev. Ungraded Ground - 6022'

WEST - 40.32 (G.L.O.)

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

LATITUDE = 39°38'03"
LONGITUDE = 110°44'36"

S89°54'E - 40.00 (G.L.O.)

N89°28'46"E 2699.64' (Meas.)

T13S

T14S

1976 Brass Cap
0.5' High, Pile
of Stones

1976 Brass Cap
0.3' High, Pile
of Stones, E-W
Fenceline, PVC
Bearing Tree

Lot 4

Lot 3

Lot 2

Lot 1

N01°48'30"W 2660.36' (Meas.)

1965 Brass Cap
0.6' High, Pile
of Stones, Steel
Post, PVC Pipe

NORTH - G.L.O. (Basis of Bearings)
2666.44' - (Measured)

1330'

1563'

1981 County
Alum. Cap 1.2'
High, Pile of
Stones

1965 Brass Cap
0.7' High, Pile
of Stones, Steel
Post, PVC Pipe

R R
10 11
E E

N88°48'56"E 2706.04' (Meas.)

Anadarko Petroleum Corporation
Helper Federal H-4
Lease U-72352
NW/NE Section 1, T14S, R10E
Carbon County, Utah

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Anadarko Petroleum Corporation is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by ES 0128 (Principal - Anadarko Petroleum Corporation) via surety consent as provided for in 43 CFR § 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR § 3106.7-2 continuing responsibility are met.

This permit will be valid for a period of one year from the date of approval. After permit termination, a new application must be filed for approval.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR § 3100), Onshore Oil and Gas Orders, lease terms, notices to lessees, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to field representatives to insure compliance.

RECEIVED

JUL 03 2000

DIVISION OF
OIL, GAS AND MINING

A. DRILLING PROGRAM

1. The proposed BOPE is in a 2M configuration, and is adequate for this depth in this area. Installation, testing and operation of the system shall be in conformance with Onshore Oil and Gas Order No. 2.
2. The requirements for air drilling, found in Onshore Oil and Gas Order No. 2, part III, E (Special Drilling Operations), shall be followed. This section requires, at a minimum, the use of the following equipment not mentioned in the application:
 - Spark arresters
 - Blooie line discharge 100 feet from wellbore
 - Straight blooie line
 - Deduster equipment
 - Float valve above bit
 - Automatic igniter on the blooie line
3. Concurrent approval from the State of Utah, Division of Oil, Gas & Mining is required before conducting any surface disturbing activities.

RECEIVED

JUL 03 2000

DIVISION OF
OIL, GAS AND MINING

B. SURFACE USE

1. The following seed tables in the Standard Operating Practices shall be followed as conditions of approval:

Table A-1, Seed Mixture for Green Strip Areas

Table A-2, Seed Mixture for Final Reclamation, Sagebrush/Grass Areas

2. The following wildlife stipulations in the Standard Operating Practices shall be followed as conditions of approval:

EMP 16 & 17, Winter Seasonal Restriction on Crucial & High Priority Winter Range

EMP 19, Critical Winter Range Browse Hand Planting

EMP 21, Surface Disturbance Mitigation for Critical & High Priority Winter Range

3. A determination will be made regarding lining the mud pit at the time of construction.
4. Within six months of installation, surface structures shall be painted in the following flat, earth tone color: Olive Black (5WA20-6). This Fuller O'Brien color is for reference only. Any brand of paint may be used provided the colors match. Any facilities that must be painted to comply with OSHA standards are exempt.
5. The operator shall obtain approval from the FAA prior to drilling.

FAA
Air Traffic Division
ANM - 520
1601 Lind Ave. SW
Renton, WA 98055-4056
425-227-2537
6. The operator shall contact Carbon County Airport prior to drilling.

Mark Francis
Carbon County Airport
3085 E Airport Road
Price, UT 84501
435-637-9556

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JUL 03 2000

DIVISION OF
OIL, GAS AND MINING

7. Soil testing shall be performed at the time of pad and road construction and the results sent to the Price BLM Field Office. Soil is to be tested at a certified soils lab. The soil testing is to consist of electrical conductivity, SAR (Sodium Absorption Ratio), macronutrients (N, P, K) and DTPA micronutrients (Fe, Zn, Cu, Mg, Ca, Cr, Ni). Commercial fertilizer with a formula of 16-16-8 is to be applied at a rate of 200 pounds per acre to the site as directed by the authorized officer. The rate may be adjusted depending on the soil test results.

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OIL, GAS AND MINING

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OIL, GAS AND MINING

C. REQUIRED APPROVALS, REPORTS AND NOTIFICATIONS

Required verbal notifications are summarized in Table 1, attached.

Building Location- Contact the BLM Natural Resource Protection Specialist at least 48-hours prior to commencing construction of location.

Spud- The spud date will be reported to BLM 24-hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the Moab Field Office within 24-hours after spudding, regardless of whether spud was made with a dry hole digger or big rig.

Daily Drilling Reports- Daily drilling reports shall detail the progress and status of the well and shall be submitted to the Moab Field Office on a weekly basis.

Monthly Reports of Operations- In accordance with Onshore Oil and Gas Order No. 1, this well shall be reported on Minerals Management Service (MMS) Form 3160, "Monthly Report of Operations," starting the month in which operations commence and continuing each month until the well is physically plugged and abandoned. This report will be filed directly with MMS.

Sundry Notices- There will be no deviation from the proposed drilling and/or workover program without prior approval. "Sundry Notices and Reports on Wells" (Form 3160-5) will be filed, with the Moab Field Office, for approval of all changes of plans and subsequent operations in accordance with 43 CFR § 3162.3-2. Safe drilling and operating practices must be observed.

Drilling Suspensions- Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Moab Field Office. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.

Undesirable Events- Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be immediately reported to the BLM in accordance with requirements of NTL-3A.

Cultural Resources- If cultural resources are discovered during construction, work that might disturb the resources is to stop, and the Price Field Office is to be notified.

First Production- Should the well be successfully completed for production, the Moab Field Office will be notified when the well is placed in producing status. Such notification may be made by phone, but must be followed by a sundry notice or letter not later than five business days following the date on which the well is placed into production.

A first production conference will be scheduled as soon as the productivity of the well is apparent. This conference should be coordinated through the Price Field Office. The Price Field Office shall be notified prior to the first sale.

Well Completion Report- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the Moab Field Office not later than thirty-days after completion of the well or after completion of operations being performed, in accordance with 43 CFR § 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. When requested, samples (cuttings and/or samples) will be submitted to the Moab Field Office.

Venting/Flaring of Gas - Gas produced from this well may not be vented/flared beyond an initial, authorized test period of 30 days or 50 MMcf, whichever first occurs, without the prior, written approval of the Moab Field Office. Should gas be vented or flared without approval beyond the authorized test period, the well may be ordered shut-in until the gas can be captured or approval to continue the venting/flaring as uneconomic is granted. In such case, compensation to the lessor shall be required for that portion of the gas that is vented/flared without approval and which is determined to have been avoidably lost.

Produced Water - An application for approval of a permanent disposal method and location will be submitted to the Moab Field Office for approval pursuant to Onshore Oil and Gas Order 7.

Off-Lease Measurement, Storage, Commingling - Prior approval must be obtained from the Moab Field Office for off-lease measurement, off-lease storage and/or commingling (either down-hole or at the surface).

Plugging and Abandonment - If the well is completed as a dry hole, plugging instructions must be obtained from the Moab Field Office prior to initiating plugging operations.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the Moab Field Office within thirty-days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR § 3162.6. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Price Field Office or the appropriate surface managing agency.

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JUL 03 2000

DIVISION OF
OIL, GAS AND MINING

TABLE 1

NOTIFICATIONS

Notify: Don Stephens (work: 435-636-3608, home: 435-637-7967) or
Mike Kaminski (work: 435-636-3640, home: 435-637-2518) of the BLM, Price Field
Office for the following:

2 days prior to commencement of dirt work, construction and reclamation;

1 day prior to spudding;

50 feet prior to reaching the surface casing setting depth

If the people above cannot be reached, notify the Moab Field Office at (435) 259-2100. If
unsuccessful, contact the person listed below.

Well abandonment operations require 24 hour advance notice and prior approval. In the case
of newly drilled dry holes, verbal approval can be obtained by calling the Moab Field Office at
(435) 259-2100. If approval is needed after work hours, you may contact the following:

Eric Jones, Petroleum Engineer

Office: (435) 259-2117

Home: (435) 259-2214

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DIVISION OF
OIL, GAS AND MINING

Anadarko Petroleum Corporation
Helper Federal H-4
Lease U-72352
NW/NE Section 1, T14S, R10E
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Air Traffic Division
ANM - 520
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Renton, WA 98055-4056
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Mark Francis
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A first production conference will be scheduled as soon as the productivity of the well is apparent. This conference should be coordinated through the Price Field Office. The Price Field Office shall be notified prior to the first sale.

Well Completion Report- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the Moab Field Office not later than thirty-days after completion of the well or after completion of operations being performed, in accordance with 43 CFR § 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. When requested, samples (cuttings and/or samples) will be submitted to the Moab Field Office.

Venting/Flaring of Gas - Gas produced from this well may not be vented/flared beyond an initial, authorized test period of 30 days or 50 MMcf, whichever first occurs, without the prior, written approval of the Moab Field Office. Should gas be vented or flared without approval beyond the authorized test period, the well may be ordered shut-in until the gas can be captured or approval to continue the venting/flaring as uneconomic is granted. In such case, compensation to the lessor shall be required for that portion of the gas that is vented/flared without approval and which is determined to have been avoidably lost.

Produced Water - An application for approval of a permanent disposal method and location will be submitted to the Moab Field Office for approval pursuant to Onshore Oil and Gas Order 7.

Off-Lease Measurement, Storage, Commingling - Prior approval must be obtained from the Moab Field Office for off-lease measurement, off-lease storage and/or commingling (either down-hole or at the surface).

Plugging and Abandonment - If the well is completed as a dry hole, plugging instructions must be obtained from the Moab Field Office prior to initiating plugging operations.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the Moab Field Office within thirty-days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR § 3162.6. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Price Field Office or the appropriate surface managing agency.

RECEIVED

JUL 03 2000

DIVISION OF
OIL, GAS AND MINING

TABLE 1

NOTIFICATIONS

Notify: Don Stephens (work: 435-636-3608, home: 435-637-7967) or
Mike Kaminski (work: 435-636-3640, home: 435-637-2518) of the BLM, Price Field
Office for the following:

2 days prior to commencement of dirt work, construction and reclamation;

1 day prior to spudding;

50 feet prior to reaching the surface casing setting depth

If the people above cannot be reached, notify the Moab Field Office at (435) 259-2100. If
unsuccessful, contact the person listed below.

Well abandonment operations require 24 hour advance notice and prior approval. In the case
of newly drilled dry holes, verbal approval can be obtained by calling the Moab Field Office at
(435) 259-2100. If approval is needed after work hours, you may contact the following:

Eric Jones, Petroleum Engineer

Office: (435) 259-2117

Home: (435) 259-2214

RECEIVED

JUL 03 2000

DIVISION OF
OIL, GAS AND MINING

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM - FORM 6

OPERATOR Anadarko Petroleum Corporation
ADDRESS P. O. Box 1330
Houston, TX 77251-1330

OPERATOR ACCT. NO. N 0035

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12832	43-007-30721	Clawson Spring State SWD-1	NW	36	15S	8E	Carbon	08-04-00	8-4-00
WELL 1 COMMENTS: 8-8-00 CONFIDENTIAL											
A	99999	12833	43-007-30699	Helper Federal H-4	SE	1	14S	10E	Carbon	08-04-00	8-4-00
WELL 2 COMMENTS: 8-8-00 CONFIDENTIAL											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)
A - Establish new entity for new well (single well only)
B - Add new well to existing entity (group or unit well)
C - Re-assign well from one existing entity to another existing entity
D - Re-assign well from one existing entity to a new entity
E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

Julie Hamilton
Signature
Regulatory Analyst
Title
Date
Phone No. (281) 875-1101

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

CONFIDENTIAL

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other Coalbed Methane	
2. Name of Operator Anadarko Petroleum Corporation	
3a. Address 17001 Northchase Dr., Houston, Texas 77060	3b. Phone No. (include area code) (281) 875-1101
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Surface & BHL: 1563' FSL & 1330' FEL of Section 1, 14S, 10E	

5. Lease Serial No. UTU-72352
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.
8. Well Name and No. Helper Federal H-4
9. API Well No. 43-007-30699
10. Field and Pool, or Exploratory Area Helper CBM
11. County or Parish, State Carbon County UT

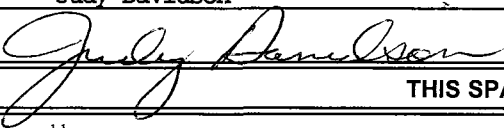
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Spud Date
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Spud Date: 08-04-00

AUG 10 2000

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Judy Davidson	Title Regulatory Analyst
	Date 08-09-00

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



August 9, 2000

CONFIDENTIAL

Bureau of Land Management
82 East Dogwood
Moab, Utah 84532

Attention: Eric Jones

RE: Sundry Notice
Carbon County

Gentlemen:

Enclosed, in triplicate, please find Form 3160-5, Sundry Notices and Reports on Wells, for the Helper Federal H-4 in Carbon County.

Please call me at (281) 874-8766 if you require further information or have any questions.

Sincerely,

Judy Davidson
Regulatory Analyst

JD/me
enclosures

cc: State of Utah
Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114-5801

AUG 10 2000

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

1. Type of Well: OIL ☐ GAS ☐ OTHER: coalbed methane

2. Name of Operator

Anadarko Petroleum Corporation

3. Address and Telephone Number.

17001 Northchase Dr., Houston, Texas 77060

(281) 874-8766

4. Location of Well

Footages:

Sec 1, T14S R10E

QQ, Sec., T., R., M.:

5. Lease Designation and Serial Number

6. Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:

9. API Well Number:

43-002-30699

10. Field and Pool, or Wildcat

County: Carbon

State: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandon | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recomplete |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Perforate |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandon* | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Perforate |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other _____ | Weekly Report of Operations |

Date of work completion _____

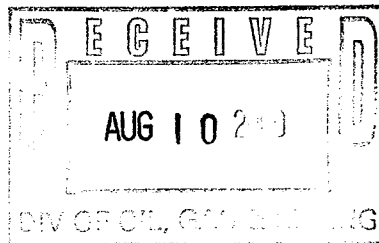
Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Weekly Reports for the following wells (week ending 08-07-00)

Clawson Spring State SWD-1
Helper State E-4
Helper Federal H-3
Helper Federal H-4



13

Name & Signature

Judy Davidson

Title Regulatory Analyst

Judy Davidson

Date 08-08-00

(This space for State use only)

ANADARKO PETROLEUM CORPORATION
WELL HISTORY
ONSHORE - U.S.

CONFIDENTIAL

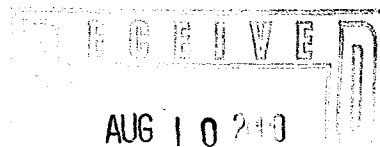
HELPER FEDERAL H-4, HELPER FIELD, 1563' FSL & 1330' FEL, SEC 1-14S-10E, CARBON CO., UTAH,
WI 1.0, NRI 0.875, AFE #20002, ETD 2525', GLE 6022', ELLENBURG RIG #11, API # 43-007-30699

08/05/2000 1433' (1114') **DRILLING**, MW - AIR

DFS 01 **SPUD NEW HOLE @ 17:30 HRS 8/04/00**, PREVIOUSLY SET 319' OF 8 5/8" 24# CSG AND
CMTD W/ 180 SXS CLASS G, LAST SURVEY @ 1002' -1.75⁰
CC: \$50,599

08/06/2000 2515' (1082') **RELEASED RIG**, MW - AIR

DFS 02 TD @ 17:00 HRS 8/05/00, RAN LOGS, RAN 59 JNTS 5 1/2" 17# N80 CSG, SET @ 2515', CMT W/
100 SXS RFC LITECRETE, MIXED @ 11.0 PPG, PLUG BMPD, FLOATS HELD, ND BOPE, SET
SLIPS, CO CSG, **RELEASED RIG @ 06:00 HRS 8/06/00, TEMPORARILY DROP FROM
REPORT, SI WO COMPL**, LAST SURVEY @ 2081' -2.75⁰
CC: \$101,028



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

Coalbed Methane

2. Name of Operator

Anadarko Petroleum Corporation

3a. Address

17001 Northchase Dr., Houston, Texas 77060

3b. Phone No. (include area code)

(281) 875-1101

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Surface & BHL: 1563' FSL & 1330' FEL, SE of Section 1, 14S, 10E

5. Lease Serial No.

UTU-72352

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or N

8. Well Name and No.

Helper Federal
H-4

9. API Well No.

43-007-30699

10. Field and Pool, or Exploratory Area

Helper CBM

11. County or Parish, State

Carbon County UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other |
| <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | 1st Gas Sales |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

1st Gas Sales: 1/31/01

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

April A. Leger

Title

Sr. Engineering Technician

Date 02-16-01

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



March 22, 2001

Ms. Carol Daniels
State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

CONFIDENTIAL

Dear Ms. Daniels:

Please find enclosed, a Form 3160-4, Well Completion Report, Wellbore Diagram, and Logs for the first 13 below listed wells. The last 3 are State of Utah wells and I enclosed the same information for each of these wells, a Form 8, Well Completion Report, Wellbore Diagram. Should you require any additional information, please contact me at (281) 873-3899.

- 1) Smith Federal A-1
- 2) Helper Federal A-4
- 3) Helper Federal A-5
- 4) Helper Federal A-6 — *Well Completion Report Rec. Previously 5/19/00 - CHD*
- 5) Helper Federal B-15
- 6) Helper Federal C-5
- 7) Helper Federal C-6
- 8) Helper Federal D-12
- 9) Helper Federal G-1
- 10) Helper Federal G-2
- 11) Helper Federal G-3
- 12) Helper Federal G-3
- 13) Helper Federal G-4
- 14) Helper Federal H-4
- 15) Helper State E-3
- 16) Clawson Springs State SWD#1
- 17) Clawson Springs State SWD #4

Sincerely,

ANADARKO PETROLEUM CORPORATION

A handwritten signature in cursive script that reads "April A. Leger".

April A. Leger
Sr. Engineering Technician

Enclosures

RECEIVED

MAR 23 2001

DIVISION OF
OIL, GAS AND MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☐ Gas Well ☐ Dry ☒ Other COALBED METHANE
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other _____

2. Name of Operator
Anadarko Petroleum Corp.

3. Address
17001 Northchase Dr., Houston, Texas 77060

3a. Phone No. (include area code)
281-875-1101

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface 1563' FSL & 1330' FEL, NESE SECTION 1, T14S-R10E

At top prod. interval reported below SAME

At total depth SAME

14. Date Spudded
08/04/00

15. Date T.D. Reached
8/06/00

16. Date Completed 8-2-01
☐ D & A ☒ Ready to Prod.

18. Total Depth: MD 2515'
TVD

19. Plug Back T.D.: MD 2481'
TVD

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

CBL/CCL/GR/NEUTRON/DENSITY

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run ☒ No ☐ Yes (Submit report)
Directional Survey? ☒ No ☐ Yes (Submit)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12 1/4"	8 5/8"	24#	0	319'		180 SXS		SURFACE	NONE
7 7/8"	5 1/2"	17#	0	2515'		100 SXS		1825'	NONE

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 3/8"	2228'							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) FERRON COAL	2058	2178	2058-2178 OA	.66 EHD	104	OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
2058-2178 OA	FRAC W/189,000 GALS 25 # XLG + 443,000 # 16/30 SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
1/31/01	2/2/01	24	→	0	37	157	N/A	.5992	PUMPING ROD PUMP 2" X 1 1/2" X 12'
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
OPEN		130	→	0	37	157	N/A	PRODUCING	

28a. Production-Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			→						

RECEIVED
MAR 23 2001
DIVISION OF
OIL, GAS AND MINING

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

28c. Production-Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

SOLD TO QUESTAR

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
FERRON COAL	2034	2238		FERRON COAL	2034
TUNUCK	2238	2515		TUNUCK	2238

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd)

2. Geologic Report

3. DST Report

4. Directional Survey

5. Sundry Notice for plugging and cement verification

6. Core Analysis

7. Other

WB DIAGRAM

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) DANIEL J. VICTOR

Title PRODUCTION ENGINEER

Signature



Date 03/21/01

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONFIDENTIAL

Helper Federal H-4

API 43-007-30699

1563' FSL & 1330' FEL Sec 1-T14S-R10E

Carbon County, Utah

SPUD RIG OFF

SURFACE 08/04/2000 08/06/2000

FIRST GAS SALES 01/31/2001 IP 37 MCFD 157 BWPD FL=1960 CP=130

6022 GL KB 6031

WELL WORK HISTORY

12 1/4" Hole
8 5/8" 24#
180 sxs cmt
TOC to surface

319

CALC
TOC
1825

(Holes) Perforations

(16) 2058 - 2062
(44) 2084 - 2095
(12) 2122 - 2125
(16) 2150 - 2154
(16) 2174 - 2178

(104) Total Holes

Hole Size 7 7/8"
5 1/2" 17# N-80
100 sxs cmt

SURFACE STRING

8-5/8" 24# set @ 319
Hole Size: 12.25
CEMENT: Type: Class G
Volume: 180 sx Cement Top: Surface

PRODUCTION STRING

5-1/2" 17# N-80 set @ 2515
Hole Size: 7.875 TD: 2515
CEMENT: Type: Class G
Volume: 100 sx Calc Cement Top: 1825

FORMATION	TOP
Ferron Coal	2034
Tunuck	2238

PBTD 2481
TD 2515

LAST REVISED: 03/22/2001

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0135
Expires: January 31, 2004

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other Coal Bed Methane

2. Name of Operator
Anardarko Petroleum Corporation

3a. Address
2515 Foothill Blvd, Suite 300, Rock Springs, WY 82901

3b. Phone No. (include area code)
307-352-3328

4. Location of Well (Footage, Sec., T, R., M., or Survey Description)
See Below

5. Lease Serial No.

See Below

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA/Agreement, Name and/or No.

NA

8. Well Name and No.

See Below

9. API Well No.

See Below

10. Field and Pool, or Exploratory Area

Helper Field

11. County or Parish, State

Carbon County, Wyoming

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Gas Measurement
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

3. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Approval is requested for the use of Electronic Thermoflow Automate recorders for allocation of gas measurement on the following well locations. The Electronic Thermoflow recorders will be installed in accordance with the manufacturer's specifications and will meet Bureau of Land Management standards. The recorders will be electronic (Flow Automates) and will record real time differential, static and temperature. All measurement will take place on the individual well locations in accordance with Bureau of Land Management standards.

Helper Federal B-6 1001' FNL, 2028' FWL, 27-13S-10E, API 43-007-30533
 Helper Federal C-2 1800' FSL, 2019' FWL, SE NW 24-13S-10E, API 43-007-30681, Lease UTU-71391
 Helper Federal D-4 1273' FNL, 1277' FWL, 35-13S-10E, API 43-007-30544, Lease UTU-68315
 Helper Federal D-10 1500' FNL, 1363' FEL, NE 25-13S-10E, API 43-007-30686, Lease UTU 68315
 Helper Federal D-11 995' FSL, 1698' FWL, SE SW 25-13S-10E, API 43-007-30687, Lease UTU-68315
 Helper Federal H-4 1563' FSL, 1330' FEL, NE SE 1-14S-10E, API 43-007-30689, Lease UTU 72352

Federal Approval Of This
Action Is Necessary

Accepted by the
Utah Division Of
Oil, Gas and Mining

Date:

11/26/2002

By:

[Signature]

RECEIVED

NOV 18 2002

DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Robert S. Flansburg

Signature

Robert S. Flansburg

Title Measurement Supervisor

Date November 13, 2002

COPY SENT TO OPERATOR

Date: 11-27-02
Initials: CHD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by (Signature)

Name
(Printed/Typed)

Title

Office

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on next page)

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING
CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

4/1/2013

FROM: (Old Operator):

N0035-Anadarko Petroleum Corporation
 PO Box 173779
 Denver, CO, 80214

Phone: 1 (720) 929-6000

TO: (New Operator):

N3940- Anadarko E&P Onshore LLC
 PO Box 173779
 Denver, CO 802014

Phone: 1 (720) 929-6000

CA No.				Unit:				
WELL NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/9/2013
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/9/2013
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 4/10/2013
- a. Is the new operator registered in the State of Utah: Business Number: 593715-0161
- a. (R649-9-2) Waste Management Plan has been received on: Yes
- b. Inspections of LA PA state/fee well sites complete on: 4/10/2013
- c. Reports current for Production/Disposition & Sundries on: 4/10/2013
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 4/2/2013 BIA N/A
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 4/10/2013

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 4/11/2013
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 4/11/2013
- Bond information entered in RBDMS on: 4/10/2013
- Fee/State wells attached to bond in RBDMS on: 4/11/2013
- Injection Projects to new operator in RBDMS on: 4/11/2013
- Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: WYB000291
- Indian well(s) covered by Bond Number: N/A
- a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 22013542
- b. The **FORMER** operator has requested a release of liability from their bond on: N/A

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 4/11/2013

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>CBM Wells</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: See Wells
2. NAME OF OPERATOR: Anadarko Petroleum Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY Denver STATE CO ZIP 80217		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (720) 929-6000		8. WELL NAME and NUMBER:
4. LOCATION OF WELL FOOTAGES AT SURFACE:		9. API NUMBER: See Wells
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT:
COUNTY:		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>4/8/2013</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER:
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator is requesting authorization to transfer the wells from Anadarko Petroleum Corporation and Anadarko Production Company to Anadarko E&P Onshore, LLC. Please see the attached list of 181 wells that are currently filed under Anadarko Petroleum Corporation and Anadarko Production Company. The state/fee wells will be under bond number 22013542, and the federal wells will be under bond number WYB000291.

Effective 4/1/13
Please contact the undersigned if there are any questions.

Jaime Scharnowske

Jaime Scharnowske
Regulatory Analyst

Anadarko Petroleum Corporation N0035
P.O. Box 173779
Denver, CO 80214
(720) 929-6000

Jaime Scharnowske DIV. OF OIL, GAS & MINING

Jaime Scharnowske
Regulatory Analyst

Anadarko E&P Onshore, LLC N3940
P.O. Box 173779
Denver, CO 80214
(720) 929-6000

NAME (PLEASE PRINT) <u>Jaime Scharnowske</u>	TITLE <u>Regulatory Analyst</u>
SIGNATURE <i>Jaime Scharnowske</i>	DATE <u>4/8/2013</u>

(This space for State use only)

APPROVED

APR 11 2013

Rachel Medina

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
Effective 1st April-2013

Well Name	Sec	Twnshp	Range	API	Entity No.	Lease Type	Well Type	Well status
HELPER ST SWD 1	03	140S	100E	4300730361	12258	State	WD	A
FED F-2 SWD	08	140S	100E	4300730555	12557	Federal	WD	A
CLAWSON SPRING ST SWD 4	13	160S	080E	4301530477	12979	State	WD	A
CLAWSON SPRING ST SWD 1	36	150S	080E	4300730721	12832	State	WD	I
HELPER FED B-1	33	130S	100E	4300730189	11537	Federal	GW	P
HELPER FED A-1	23	130S	100E	4300730190	11517	Federal	GW	P
HELPER FED A-3	22	130S	100E	4300730213	11700	Federal	GW	P
HELPER FED C-1	22	130S	100E	4300730214	11702	Federal	GW	P
HELPER FED B-5	27	130S	100E	4300730215	11701	Federal	GW	P
HELPER FED A-2	22	130S	100E	4300730216	11699	Federal	GW	P
HELPER FED D-1	26	130S	100E	4300730286	12061	Federal	GW	P
BIRCH A-1	05	140S	100E	4300730348	12120	Fee	GW	P
HELPER ST A-1	03	140S	100E	4300730349	12122	State	GW	P
HELPER ST D-7	04	140S	100E	4300730350	12121	State	GW	P
CHUBBUCK A-1	31	130S	100E	4300730352	12397	Fee	GW	P
VEA A-1	32	130S	100E	4300730353	12381	Fee	GW	P
VEA A-2	32	130S	100E	4300730354	12483	Fee	GW	P
VEA A-3	32	130S	100E	4300730355	12398	Fee	GW	P
VEA A-4	32	130S	100E	4300730356	12482	Fee	GW	P
HELPER ST A-8	02	140S	100E	4300730357	12257	State	GW	P
HELPER ST A-3	02	140S	100E	4300730358	12254	State	GW	P
HELPER ST A-4	02	140S	100E	4300730359	12255	State	GW	P
HELPER ST A-7	02	140S	100E	4300730360	12256	State	GW	P
HELPER ST A-2	03	140S	100E	4300730362	12232	State	GW	P
HELPER ST A-5	03	140S	100E	4300730363	12231	State	GW	P
HELPER ST A-6	03	140S	100E	4300730364	12233	State	GW	P
HELPER ST D-4	04	140S	100E	4300730365	12228	State	GW	P
HELPER ST D-3	05	140S	100E	4300730366	12184	State	GW	P
HELPER ST D-5	04	140S	100E	4300730367	12226	State	GW	P
HELPER ST D-8	04	140S	100E	4300730368	12229	State	GW	P
HELPER ST D-2	05	140S	100E	4300730369	12481	State	GW	P
HELPER ST D-6	05	140S	100E	4300730370	12234	State	GW	P
HELPER ST D-1	06	140S	100E	4300730371	12399	State	GW	P
BIRCH A-2	08	140S	100E	4300730372	12189	Fee	GW	P
HELPER ST A-9	10	140S	100E	4300730373	12230	State	GW	P
HELPER ST B-1	09	140S	100E	4300730376	12227	State	GW	P
HELPER FED F-3	08	140S	100E	4300730378	12252	Federal	GW	P
HELPER FED F-4	09	140S	100E	4300730379	12253	Federal	GW	P
HELPER ST A-10	10	140S	100E	4300730433	12488	State	GW	P
HELPER ST A-11	11	140S	100E	4300730434	12487	State	GW	P
HELPER ST A-12	10	140S	100E	4300730435	12486	State	GW	P
HELPER ST A-13	10	140S	100E	4300730436	12485	State	GW	P
HELPER ST B-2	09	140S	100E	4300730437	12484	State	GW	P
HELPER FED E-7	19	130S	100E	4300730508	13623	Federal	GW	P
HELPER FED B-2	33	130S	100E	4300730530	12619	Federal	GW	P
HELPER FED B-3	33	130S	100E	4300730531	12622	Federal	GW	P
HELPER FED B-4	33	130S	100E	4300730532	12623	Federal	GW	P
HELPER FED B-6	27	130S	100E	4300730533	12644	Federal	GW	P
HELPER FED B-7	27	130S	100E	4300730534	12645	Federal	GW	P
HELPER FED B-8	27	130S	100E	4300730535	12631	Federal	GW	P

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
Effective 1-April-2013

Well Name	Sec	Twnshp	Range	API	Entity No.	Lease Type	Well Type	Well status
HELPER FED B-9	34	130S	100E	4300730536	12646	Federal	GW	P
HELPER FED B-10	34	130S	100E	4300730537	12626	Federal	GW	P
HELPER FED B-11	34	130S	100E	4300730538	12628	Federal	GW	P
HELPER FED B-12	34	130S	100E	4300730539	12627	Federal	GW	P
HELPER FED B-13	28	130S	100E	4300730540	12621	Federal	GW	P
HELPER FED B-14	28	130S	100E	4300730541	12620	Federal	GW	P
HELPER FED D-2	26	130S	100E	4300730542	12650	Federal	GW	P
HELPER FED D-3	26	130S	100E	4300730543	12634	Federal	GW	P
HELPER FED D-4	35	130S	100E	4300730544	12625	Federal	GW	P
HELPER FED D-5	35	130S	100E	4300730545	12637	Federal	GW	P
HELPER FED D-6	35	130S	100E	4300730546	12635	Federal	GW	P
HELPER FED E-1	29	130S	100E	4300730547	13246	Federal	GW	P
HELPER FED E-2	29	130S	100E	4300730548	12636	Federal	GW	P
HELPER FED H-1	01	140S	100E	4300730549	12653	Federal	GW	P
HELPER FED H-2	01	140S	100E	4300730550	12647	Federal	GW	P
OLIVETO FED A-2	08	140S	100E	4300730556	12630	Federal	GW	P
HELPER FED F-1	08	140S	100E	4300730557	12629	Federal	GW	P
SMITH FED A-1	09	140S	100E	4300730558	13004	Federal	GW	P
SE INVESTMENTS A-1	06	140S	100E	4300730570	12624	Fee	GW	P
HELPER ST A-14	11	140S	100E	4300730571	12612	State	GW	P
HELPER ST A-15	11	140S	100E	4300730572	12613	State	GW	P
HELPER ST E-1	36	130S	100E	4300730573	12615	State	GW	P
HELPER ST E-2	36	130S	100E	4300730574	12614	State	GW	P
HARMOND A-1	07	140S	100E	4300730586	12616	Fee	GW	P
HELPER ST E-3	36	130S	100E	4300730592	12868	State	GW	P
HELPER FED A-6	23	130S	100E	4300730593	12649	Federal	GW	P
HELPER FED D-7	26	130S	100E	4300730594	12651	Federal	GW	P
HELPER FED D-8	35	130S	100E	4300730595	12652	Federal	GW	P
CLAWSON SPRING ST A-1	36	150S	080E	4300730597	12618	State	GW	P
HELPER ST E-4	36	130S	100E	4300730598	12825	State	GW	P
HELPER ST A-16	11	140S	100E	4300730603	12638	State	GW	P
CHUBBUCK A-2	06	140S	100E	4300730604	12648	Fee	GW	P
CLAWSON SPRING ST A-2	36	150S	080E	4300730635	12856	State	GW	P
CLAWSON SPRING ST A-3	36	150S	080E	4300730636	13001	State	GW	P
CLAWSON SPRING ST A-4	36	150S	080E	4300730637	12844	State	GW	P
CLAWSON SPRING ST D-5	31	150S	090E	4300730642	12852	State	GW	P
CLAWSON SPRING ST D-6	31	150S	090E	4300730643	12847	State	GW	P
CLAWSON SPRING ST D-7	31	150S	090E	4300730644	12849	State	GW	P
HELPER FED A-5	23	130S	100E	4300730677	13010	Federal	GW	P
HELPER FED A-7	22	130S	100E	4300730678	13346	Federal	GW	P
HELPER FED B-15	28	130S	100E	4300730679	13015	Federal	GW	P
HELPER FED B-16	28	130S	100E	4300730680	13203	Federal	GW	P
HELPER FED C-2	24	130S	100E	4300730681	13016	Federal	GW	P
HELPER FED C-4	24	130S	100E	4300730682	13012	Federal	GW	P
HELPER FED C-7	21	130S	100E	4300730684	13204	Federal	GW	P
HELPER FED D-9	25	130S	100E	4300730685	13245	Federal	GW	P
HELPER FED D-10	25	130S	100E	4300730686	12993	Federal	GW	P
HELPER FED D-11	25	130S	100E	4300730687	12992	Federal	GW	P
HELPER FED D-12	25	130S	100E	4300730688	13005	Federal	GW	P
HELPER FED E-4	29	130S	100E	4300730689	13229	Federal	GW	P

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
Effective 1-April-2013

Well Name	Sec	Twnshp	Range	API	Entity No.	Lease Type	Well Type	Well status
HELPER FED A-4	23	130S	100E	4300730692	13009	Federal	GW	P
HELPER FED C-5	24	130S	100E	4300730693	13013	Federal	GW	P
HELPER FED G-1	30	130S	110E	4300730694	13006	Federal	GW	P
HELPER FED G-2	30	130S	110E	4300730695	13007	Federal	GW	P
HELPER FED G-3	31	130S	110E	4300730696	13002	Federal	GW	P
HELPER FED G-4	31	130S	110E	4300730697	13003	Federal	GW	P
HELPER FED H-3	01	140S	100E	4300730698	12831	Federal	GW	P
HELPER FED H-4	01	140S	100E	4300730699	12833	Federal	GW	P
CLAWSON SPRING ST D-8	31	150S	090E	4300730701	12851	State	GW	P
HELPER FED C-3	24	130S	100E	4300730702	13011	Federal	GW	P
CLAWSON SPRING ST J-1	35	150S	080E	4300730726	13299	Fee	GW	P
PIERUCCI 1	35	150S	080E	4300730727	13325	Fee	GW	P
POTTER ETAL 1	35	150S	080E	4300730728	12958	Fee	GW	P
POTTER ETAL 2	35	150S	080E	4300730737	12959	Fee	GW	P
HELPER FED G-5	30	130S	110E	4300730770	13655	Federal	GW	P
HELPER FED G-6	30	130S	110E	4300730771	13656	Federal	GW	P
HELPER FED G-7	31	130S	110E	4300730772	13657	Federal	GW	P
HELPER FED G-8	31	130S	110E	4300730773	13658	Federal	GW	P
GOODALL A-1	06	140S	110E	4300730774	13348	Fee	GW	P
HELPER FED E-8	19	130S	100E	4300730776	13624	Federal	GW	P
HAUSKNECHT A-1	21	130S	100E	4300730781	13347	Fee	GW	P
HELPER FED E-9	19	130S	100E	4300730868	13628	Federal	GW	P
HELPER FED E-5	20	130S	100E	4300730869	13625	Federal	GW	P
HELPER FED E-6	20	130S	100E	4300730870	13631	Federal	GW	P
HELPER FED E-10	30	130S	100E	4300730871	13629	Federal	GW	P
SACCOMANNO A-1	30	130S	100E	4300730872	13622	Fee	GW	P
HELPER FED E-11	30	130S	100E	4300730873	13630	Federal	GW	P
BLACKHAWK A-2	29	130S	100E	4300730886	13783	Fee	GW	P
BLACKHAWK A-3	20	130S	100E	4300730914	13794	Fee	GW	P
BLACKHAWK A-4	21	130S	100E	4300730915	13795	Fee	GW	P
BLACKHAWK A-1X	20	130S	100E	4300730923	13798	Fee	GW	P
HELPER STATE 12-3	03	140S	100E	4300750070	17824	State	GW	P
HELPER STATE 32-3	03	140S	100E	4300750071	17827	State	GW	P
HELPER STATE 32-36	36	130S	100E	4300750072	17825	State	GW	P
VEA 32-32	32	130S	100E	4300750075	17826	Fee	GW	P
CLAWSON SPRING ST E-7	07	160S	090E	4301530392	12960	State	GW	P
CLAWSON SPRING ST E-8	07	160S	090E	4301530394	12964	State	GW	P
CLAWSON SPRING ST E-3	06	160S	090E	4301530403	12965	State	GW	P
CLAWSON SPRING ST E-1	06	160S	090E	4301530404	12966	State	GW	P
CLAWSON SPRING ST E-2	06	160S	090E	4301530405	12961	State	GW	P
CLAWSON SPRING ST E-4	06	160S	090E	4301530406	12962	State	GW	P
CLAWSON SPRING ST C-1	12	160S	080E	4301530410	12617	State	GW	P
CLAWSON SPRING ST B-1	01	160S	080E	4301530427	12845	State	GW	P
CLAWSON SPRING ST B-2	01	160S	080E	4301530428	12846	State	GW	P
CLAWSON SPRING ST B-3	01	160S	080E	4301530429	12848	State	GW	P
CLAWSON SPRING ST B-4	01	160S	080E	4301530430	12854	State	GW	P
CLAWSON SPRING ST B-5	12	160S	080E	4301530431	12963	State	GW	P
CLAWSON SPRING ST B-8	11	160S	080E	4301530432	12863	State	GW	P
CLAWSON SPRING ST B-9	11	160S	080E	4301530433	12864	State	GW	P
CLAWSON SPRING ST C-2	12	160S	080E	4301530434	12850	State	GW	P

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
Effective 1-April-2013

Well Name	Sec	Twnshp	Range	API	Entity No.	Lease Type	Well Type	Well status
CLAWSON SPRING ST C-4	14	160S	080E	4301530435	13199	State	GW	P
CLAWSON SPRING ST B-7	11	160S	080E	4301530460	12967	State	GW	P
CLAWSON SPRING ST C-6	14	160S	080E	4301530461	13355	State	GW	P
CLAWSON SPRING ST C-3	12	160S	080E	4301530463	12968	State	GW	P
CLAWSON SPRING ST B-6	11	160S	080E	4301530465	12969	State	GW	P
CLAWSON SPRING ST H-1	13	160S	080E	4301530466	13323	State	GW	P
CLAWSON SPRING ST H-2	13	160S	080E	4301530467	12955	State	GW	P
CLAWSON SPRING ST IPA-1	10	160S	080E	4301530468	12956	Fee	GW	P
CLAWSON SPRING ST IPA-2	15	160S	080E	4301530469	13200	Fee	GW	P
CLAWSON SPRING ST E-5	07	160S	090E	4301530470	12971	State	GW	P
CLAWSON SPRING ST G-1	02	160S	080E	4301530471	13014	State	GW	P
CLAWSON SPRING ST F-2	03	160S	080E	4301530472	13282	State	GW	P
CLAWSON SPRING ST F-1	03	160S	080E	4301530473	13278	State	GW	P
CLAWSON SPRING ST E-6	07	160S	090E	4301530474	13052	State	GW	P
CLAWSON SPRING ST G-2	02	160S	080E	4301530475	12957	State	GW	P
CLAWSON SPRING ST M-1	02	160S	080E	4301530488	13201	State	GW	P
CLAWSON SPRING ST K-1	02	160S	080E	4301530489	13202	State	GW	P
SHIMMIN TRUST 3	14	120S	100E	4300730119	11096	Fee	GW	PA
SHIMMIN TRUST 1	11	120S	100E	4300730120	11096	Fee	GW	PA
SHIMMIN TRUST 2	14	120S	100E	4300730121	11096	Fee	GW	PA
SHIMMIN TRUST 4	11	120S	100E	4300730123	11096	Fee	GW	PA
ST 9-16	16	120S	100E	4300730132	11402	State	GW	PA
ST 2-16	16	120S	100E	4300730133	11399	State	GW	PA
MATTS SUMMIT ST A-1	14	120S	090E	4300730141	11273	State	GW	PA
SLEMAKER A-1	05	120S	120E	4300730158	11441	Fee	GW	PA
JENSEN 16-10	10	120S	100E	4300730161	11403	Fee	GW	PA
JENSEN 7-15	15	120S	100E	4300730165	11407	Fee	GW	PA
SHIMMIN TRUST 12-12	12	120S	100E	4300730168	11420	Fee	GW	PA
JENSEN 11-15	15	120S	100E	4300730175	11425	Fee	GW	PA
BRYNER A-1	11	120S	120E	4300730188	11503	Fee	GW	PA
BRYNER A-1X (RIG SKID)	11	120S	120E	4300730209	11503	Fee	GW	PA
BLACKHAWK A-1	20	130S	100E	4300730885	13798	Fee	D	PA
BLACKHAWK A-5H	20	130S	100E	4300731402	17029	Fee	D	PA
CLAWSON SPRING ST SWD 3	06	160S	090E	4301530476	12978	State	D	PA
HELPER FED C-6	21	130S	100E	4300730683	13008	Federal	GW	S
UTAH 10-415	10	160S	080E	4301530391	12632	State	GW	TA

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
1	4300730189	HELPER FED B-1	NESW	33	13S	10E	Federal	USA UTU 71392	Producing
2	4300730190	HELPER FED A-1	C-SW	23	13S	10E	Federal	USA UTU 58434	Producing
3	4300730213	HELPER FED A-3	SESE	22	13S	10E	Federal	USA UTU 58434	Producing
4	4300730214	HELPER FED C-1	SENE	22	13S	10E	Federal	USA UTU 71391	Producing
5	4300730215	HELPER FED B-5	NENE	27	13S	10E	Federal	USA UTU 71392	Producing
6	4300730216	HELPER FED A-2	NESW	22	13S	10E	Federal	USA UTU 58434	Producing
7	4300730286	HELPER FED D-1	SWNE	26	13S	10E	Federal	USA UTU 68315	Producing
8	4300730378	HELPER FED F-3	NENE	8	14S	10E	Federal	USA UTU 65762	Producing
9	4300730379	HELPER FED F-4	NWNW	9	14S	10E	Federal	USA UTU 65762	Producing
10	4300730508	HELPER FED E-7	SESE	19	13S	10E	Federal	USA UTU 77980	Producing
11	4300730530	HELPER FED B-2	SENE	33	13S	10E	Federal	USA UTU 71392	Producing
12	4300730531	HELPER FED B-3	NESE	33	13S	10E	Federal	USA UTU 71392	Producing
13	4300730532	HELPER FED B-4	NENE	33	13S	10E	Federal	USA UTU 71392	Producing
14	4300730533	HELPER FED B-6	NENW	27	13S	10E	Federal	USA UTU 71392	Producing
15	4300730534	HELPER FED B-7	NESW	27	13S	10E	Federal	USA UTU 71392	Producing
16	4300730535	HELPER FED B-8	SESE	27	13S	10E	Federal	USA UTU 71392	Producing
17	4300730536	HELPER FED B-9	SENE	34	13S	10E	Federal	USA UTU 71392	Producing
18	4300730537	HELPER FED B-10	NWNE	34	13S	10E	Federal	USA UTU 71392	Producing
19	4300730538	HELPER FED B-11	SESW	34	13S	10E	Federal	USA UTU 71392	Producing
20	4300730539	HELPER FED B-12	NESE	34	13S	10E	Federal	USA UTU 71392	Producing
21	4300730540	HELPER FED B-13	SWSE	28	13S	10E	Federal	USA UTU 71392	Producing
22	4300730541	HELPER FED B-14	SWSW	28	13S	10E	Federal	USA UTU 71392	Producing
23	4300730542	HELPER FED D-2	SWNW	26	13S	10E	Federal	USA UTU 68315	Producing
24	4300730543	HELPER FED D-3	SESW	26	13S	10E	Federal	USA UTU 68315	Producing
25	4300730544	HELPER FED D-4	NWNW	35	13S	10E	Federal	USA UTU 68315	Producing
26	4300730545	HELPER FED D-5	SESW	35	13S	10E	Federal	USA UTU 68315	Producing
27	4300730546	HELPER FED D-6	NWSE	35	13S	10E	Federal	USA UTU 68315	Producing
28	4300730547	HELPER FED E-1	NESE	29	13S	10E	Federal	USA UTU 71675	Producing
29	4300730548	HELPER FED E-2	SESW	29	13S	10E	Federal	USA UTU 71675	Producing
30	4300730549	HELPER FED H-1	NENW	1	14S	10E	Federal	USA UTU 72352	Producing
31	4300730550	HELPER FED H-2	SESW	1	14S	10E	Federal	USA UTU 72352	Producing
32	4300730556	OLIVETO FED A-2	NESW	8	14S	10E	Federal	USA UTU 65762	Producing
33	4300730557	HELPER FED F-1	SESE	8	14S	10E	Federal	USA UTU 65762	Producing
34	4300730558	SMITH FED A-1	NWSW	9	14S	10E	Federal	USA UTU 65762	Producing
35	4300730593	HELPER FED A-6	SESE	23	13S	10E	Federal	USA UTU 58434	Producing
36	4300730594	HELPER FED D-7	C-SE	26	13S	10E	Federal	USA UTU 68315	Producing
37	4300730595	HELPER FED D-8	NENE	35	13S	10E	Federal	USA UTU 68315	Producing
38	4300730677	HELPER FED A-5	NENE	23	13S	10E	Federal	USA UTU 58434	Producing
39	4300730678	HELPER FED A-7	SENE	22	13S	10E	Federal	USA UTU 58434	Producing
40	4300730679	HELPER FED B-15	SENE	28	13S	10E	Federal	USA UTU 71392	Producing
41	4300730680	HELPER FED B-16	SWNW	28	13S	10E	Federal	USA UTU 71392	Producing
42	4300730681	HELPER FED C-2	NENW	24	13S	10E	Federal	USA UTU 71391	Producing

API Well Number		Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
43	4300730682	HELPER FED C-4	NWSW	24	13S	10E	Federal	USA UTU 71391	Producing
44	4300730683	HELPER FED C-6	SWSE	21	13S	10E	Federal	USA UTU 71391	Shut-In
45	4300730684	HELPER FED C-7	SESW	21	13S	10E	Federal	USA UTU 71391	Producing
46	4300730685	HELPER FED D-9	NWNW	25	13S	10E	Federal	USA UTU 68315	Producing
47	4300730686	HELPER FED D-10	SENE	25	13S	10E	Federal	USA UTU 68315	Producing
48	4300730687	HELPER FED D-11	SESW	25	13S	10E	Federal	USA UTU 68315	Producing
49	4300730688	HELPER FED D-12	SESE	25	13S	10E	Federal	USA UTU 68315	Producing
50	4300730689	HELPER FED E-4	NWNE	29	13S	10E	Federal	USA UTU 71675	Producing
51	4300730692	HELPER FED A-4	SWNW	23	13S	10E	Federal	USA UTU 58434	Producing
52	4300730693	HELPER FED C-5	SWNE	24	13S	10E	Federal	USA UTU 71391	Producing
53	4300730694	HELPER FED G-1	C-NW	30	13S	11E	Federal	USA UTU 71677	Producing
54	4300730695	HELPER FED G-2	SWSW	30	13S	11E	Federal	USA UTU 71677	Producing
55	4300730696	HELPER FED G-3	SENW	31	13S	11E	Federal	USA UTU 71677	Producing
56	4300730697	HELPER FED G-4	SESW	31	13S	11E	Federal	USA UTU 71677	Producing
57	4300730698	HELPER FED H-3	SWNE	1	14S	10E	Federal	USA UTU 72352	Producing
58	4300730699	HELPER FED H-4	NESE	1	14S	10E	Federal	USA UTU 72352	Producing
59	4300730702	HELPER FED C-3	SESW	24	13S	10E	Federal	USA UTU 71391	Producing
60	4300730770	HELPER FED G-5	SWNE	30	13S	11E	Federal	USA UTU 71677	Producing
61	4300730771	HELPER FED G-6	SWSE	30	13S	11E	Federal	USA UTU 71677	Producing
62	4300730772	HELPER FED G-7	NWNE	31	13S	11E	Federal	USA UTU 71677	Producing
63	4300730773	HELPER FED G-8	NESE	31	13S	11E	Federal	USA UTU 71677	Producing
64	4300730776	HELPER FED E-8	SENE	19	13S	10E	Federal	USA UTU 77980	Producing
65	4300730868	HELPER FED E-9	SESW	19	13S	10E	Federal	USA UTU 77980	Producing
66	4300730869	HELPER FED E-5	SWSW	20	13S	10E	Federal	USA UTU 71675	Producing
67	4300730870	HELPER FED E-6	SWNW	20	13S	10E	Federal	USA UTU 71675	Producing
68	4300730871	HELPER FED E-10	NENW	30	13S	10E	Federal	USA UTU 71675	Producing
69	4300730873	HELPER FED E-11	NWNE	30	13S	10E	Federal	USA UTU 71675	Producing
70	4300730119	SHIMMIN TRUST 3	SENW	14	12S	10E	Fee (Private)		Plugged and Abandoned
71	4300730120	SHIMMIN TRUST 1	SESE	11	12S	10E	Fee (Private)		Plugged and Abandoned
72	4300730121	SHIMMIN TRUST 2	SENE	14	12S	10E	Fee (Private)		Plugged and Abandoned
73	4300730123	SHIMMIN TRUST 4	SESW	11	12S	10E	Fee (Private)		Plugged and Abandoned
74	4300730158	SLEMAKER A-1	SWNE	5	12S	12E	Fee (Private)		Plugged and Abandoned
75	4300730161	JENSEN 16-10	SESE	10	12S	10E	Fee (Private)		Plugged and Abandoned
76	4300730165	JENSEN 7-15	SWNE	15	12S	10E	Fee (Private)		Plugged and Abandoned
77	4300730168	SHIMMIN TRUST 12-12	NWSW	12	12S	10E	Fee (Private)		Plugged and Abandoned
78	4300730175	JENSEN 11-15	NESW	15	12S	10E	Fee (Private)		Plugged and Abandoned
79	4300730188	BRYNER A-1	NESE	11	12S	12E	Fee (Private)		Plugged and Abandoned
80	4300730209	BRYNER A-1X (RIG SKID)	NESE	11	12S	12E	Fee (Private)		Plugged and Abandoned
81	4300730348	BIRCH A-1	NWSW	5	14S	10E	Fee (Private)		Producing
82	4300730352	CHUBBUCK A-1	NESE	31	13S	10E	Fee (Private)		Producing
83	4300730353	VEA A-1	SWNW	32	13S	10E	Fee (Private)		Producing
84	4300730354	VEA A-2	NENE	32	13S	10E	Fee (Private)		Producing

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
85	4300730355	VEA A-3	SESW	32	13S	10E	Fee (Private)		Producing
86	4300730356	VEA A-4	NWSE	32	13S	10E	Fee (Private)		Producing
87	4300730372	BIRCH A-2	NWNW	8	14S	10E	Fee (Private)		Producing
88	4300730570	SE INVESTMENTS A-1	NESE	6	14S	10E	Fee (Private)		Producing
89	4300730586	HARMOND A-1	SENE	7	14S	10E	Fee (Private)		Producing
90	4300730604	CHUBBUCK A-2	SENW	6	14S	10E	Fee (Private)		Producing
91	4300730726	CLAWSON SPRING ST J-1	SESW	35	15S	8E	Fee (Private)		Producing
92	4300730727	PIERUCCI 1	SENW	35	15S	8E	Fee (Private)		Producing
93	4300730728	POTTER ETAL 1	SWNE	35	15S	8E	Fee (Private)		Producing
94	4300730737	POTTER ETAL 2	NESE	35	15S	8E	Fee (Private)		Producing
95	4300730774	GOODALL A-1	NWSW	6	14S	11E	Fee (Private)		Producing
96	4300730781	HAUSKNECHT A-1	SWNW	21	13S	10E	Fee (Private)		Producing
97	4300730872	SACCOMANNO A-1	NESE	30	13S	10E	Fee (Private)		Producing
98	4300730885	BLACKHAWK A-1	SESE	20	13S	10E	Fee (Private)		Plugged and Abandoned
99	4300730886	BLACKHAWK A-2	NWNW	29	13S	10E	Fee (Private)		Producing
100	4300730914	BLACKHAWK A-3	SENE	20	13S	10E	Fee (Private)		Producing
101	4300730915	BLACKHAWK A-4	NENE	21	13S	10E	Fee (Private)		Producing
102	4300730923	BLACKHAWK A-1X	SESE	20	13S	10E	Fee (Private)		Producing
103	4300731402	BLACKHAWK A-5H	NENE	20	13S	10E	Fee (Private)		Plugged and Abandoned
104	4300750075	VEA 32-32	SWNE	32	13S	10E	Fee (Private)		Producing
105	4301530468	CLAWSON SPRING ST IPA-1	SESE	10	16S	8E	Fee (Private)		Producing
106	4301530469	CLAWSON SPRING ST IPA-2	NENE	15	16S	8E	Fee (Private)		Producing
107	4300730132	ST 9-16	NESE	16	12S	10E	State	ML-44443	Plugged and Abandoned
108	4300730133	ST 2-16	NWNE	16	12S	10E	State	ML-44443	Plugged and Abandoned
109	4300730141	MATTS SUMMIT ST A-1	NWNW	14	12S	9E	State	ML-44496	Plugged and Abandoned
110	4300730349	HELPER ST A-1	SENW	3	14S	10E	State	ST UT ML 45805	Producing
111	4300730350	HELPER ST D-7	NWSW	4	14S	10E	State	ST UT ML 45804	Producing
112	4300730357	HELPER ST A-8	NWSE	2	14S	10E	State	ST UT ML 45805	Producing
113	4300730358	HELPER ST A-3	NWNW	2	14S	10E	State	ST UT ML 45805	Producing
114	4300730359	HELPER ST A-4	NWNE	2	14S	10E	State	ST UT ML 45805	Producing
115	4300730360	HELPER ST A-7	NESW	2	14S	10E	State	ST UT ML 45805	Producing
116	4300730362	HELPER ST A-2	NENE	3	14S	10E	State	ST UT ML 45805	Producing
117	4300730363	HELPER ST A-5	NESW	3	14S	10E	State	ST UT ML 45805	Producing
118	4300730364	HELPER ST A-6	NESE	3	14S	10E	State	ST UT ML 45805	Producing
119	4300730365	HELPER ST D-4	SWNW	4	14S	10E	State	ST UT ML 45804	Producing
120	4300730366	HELPER ST D-3	NENE	5	14S	10E	State	ST UT ML 45804	Producing
121	4300730367	HELPER ST D-5	NWNE	4	14S	10E	State	ST UT ML 45804	Producing
122	4300730368	HELPER ST D-8	SESE	4	14S	10E	State	ST UT ML 45804	Producing
123	4300730369	HELPER ST D-2	NENW	5	14S	10E	State	ST UT ML 45804	Producing
124	4300730370	HELPER ST D-6	SESE	5	14S	10E	State	ST UT ML 45804	Producing
125	4300730371	HELPER ST D-1	NENE	6	14S	10E	State	ST UT ML 45804	Producing
126	4300730373	HELPER ST A-9	SENW	10	14S	10E	State	ST UT ML 45805	Producing

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
127	4300730376	HELPER ST B-1	SWNE	9	14S	10E	State	ST UT ML 47556	Producing
128	4300730433	HELPER ST A-10	NWNE	10	14S	10E	State	ST UT ML 45805	Producing
129	4300730434	HELPER ST A-11	SWNW	11	14S	10E	State	ST UT ML 45805	Producing
130	4300730435	HELPER ST A-12	NWSW	10	14S	10E	State	ST UT ML 45805	Producing
131	4300730436	HELPER ST A-13	NESE	10	14S	10E	State	ST UT ML 45805	Producing
132	4300730437	HELPER ST B-2	NESE	9	14S	10E	State	ST UT ML 47556	Producing
133	4300730571	HELPER ST A-14	SESW	11	14S	10E	State	ST UT ML 45805	Producing
134	4300730572	HELPER ST A-15	SENE	11	14S	10E	State	ST UT ML 45805	Producing
135	4300730573	HELPER ST E-1	SESW	36	13S	10E	State	ST UT ML 45802	Producing
136	4300730574	HELPER ST E-2	SWNW	36	13S	10E	State	ST UT ML 45802	Producing
137	4300730592	HELPER ST E-3	NENE	36	13S	10E	State	ST UT ML 45802	Producing
138	4300730597	CLAWSON SPRING ST A-1	SWSE	36	15S	8E	State	ST UT ML 46106	Producing
139	4300730598	HELPER ST E-4	SWSE	36	13S	10E	State	ST UT ML 45802	Producing
140	4300730603	HELPER ST A-16	SWSE	11	14S	10E	State	ST UT ML 45805	Producing
141	4300730635	CLAWSON SPRING ST A-2	NWNW	36	15S	8E	State	ST UT ML 46106	Producing
142	4300730636	CLAWSON SPRING ST A-3	NESW	36	15S	8E	State	ST UT ML 46106	Producing
143	4300730637	CLAWSON SPRING ST A-4	NWNE	36	15S	8E	State	ST UT ML 46106	Producing
144	4300730642	CLAWSON SPRING ST D-5	NENW	31	15S	9E	State	ML-48226	Producing
145	4300730643	CLAWSON SPRING ST D-6	SWSW	31	15S	9E	State	ML-48226	Producing
146	4300730644	CLAWSON SPRING ST D-7	NWNE	31	15S	9E	State	ML-48226	Producing
147	4300730701	CLAWSON SPRING ST D-8	NWSE	31	15S	9E	State	ML-48226	Producing
148	4300750070	HELPER STATE 12-3	SWNW	3	14S	10E	State	ST UT ML 45805	Producing
149	4300750071	HELPER STATE 32-3	SWNE	3	14S	10E	State	ST UT ML 45805	Producing
150	4300750072	HELPER STATE 32-36	SWNE	36	13S	10E	State	ST UT ML 45802	Producing
151	4301530391	UTAH 10-415	NENE	10	16S	8E	State	ST UT ML 48189	Temporarily-Abandoned
152	4301530392	CLAWSON SPRING ST E-7	SENE	7	16S	9E	State	ST UT ML 48220-A	Producing
153	4301530394	CLAWSON SPRING ST E-8	SWSE	7	16S	9E	State	ST UT ML 48220-A	Producing
154	4301530403	CLAWSON SPRING ST E-3	SENE	6	16S	9E	State	ST UT ML 48220-A	Producing
155	4301530404	CLAWSON SPRING ST E-1	SENE	6	16S	9E	State	ST UT ML 48220-A	Producing
156	4301530405	CLAWSON SPRING ST E-2	NESW	6	16S	9E	State	ST UT ML 48220-A	Producing
157	4301530406	CLAWSON SPRING ST E-4	NWSE	6	16S	9E	State	ST UT ML 48220-A	Producing
158	4301530410	CLAWSON SPRING ST C-1	SWNW	12	16S	8E	State	ST UT UO 48209	Producing
159	4301530427	CLAWSON SPRING ST B-1	NENW	1	16S	8E	State	ST UT ML 48216	Producing
160	4301530428	CLAWSON SPRING ST B-2	NWSW	1	16S	8E	State	ST UT ML 48216	Producing
161	4301530429	CLAWSON SPRING ST B-3	NWNE	1	16S	8E	State	ST UT ML 48216	Producing
162	4301530430	CLAWSON SPRING ST B-4	SESE	1	16S	8E	State	ST UT ML 48216	Producing
163	4301530431	CLAWSON SPRING ST B-5	SWSW	12	16S	8E	State	ST UT ML 48216	Producing
164	4301530432	CLAWSON SPRING ST B-8	SENE	11	16S	8E	State	ST UT ML 48216	Producing
165	4301530433	CLAWSON SPRING ST B-9	NWSE	11	16S	8E	State	ST UT ML 48216	Producing
166	4301530434	CLAWSON SPRING ST C-2	SENE	12	16S	8E	State	ST UT UO 48209	Producing
167	4301530435	CLAWSON SPRING ST C-4	SWNW	14	16S	8E	State	ST UT UO 48209	Producing
168	4301530460	CLAWSON SPRING ST B-7	NWSW	11	16S	8E	State	ST UT ML 48216	Producing

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
169	4301530461	CLAWSON SPRING ST C-6	SENE	14	16S	8E	State	ST UT UO 48209	Producing
170	4301530463	CLAWSON SPRING ST C-3	C-SE	12	16S	8E	State	ST UT UO 48209	Producing
171	4301530465	CLAWSON SPRING ST B-6	NENW	11	16S	8E	State	ST UT ML 48216	Producing
172	4301530466	CLAWSON SPRING ST H-1	NENW	13	16S	8E	State	ST UT ML 48217-A	Producing
173	4301530467	CLAWSON SPRING ST H-2	NENE	13	16S	8E	State	ST UT ML 48217-A	Producing
174	4301530470	CLAWSON SPRING ST E-5	NENW	7	16S	9E	State	ST UT ML 48220-A	Producing
175	4301530471	CLAWSON SPRING ST G-1	NWNW	2	16S	8E	State	ST UT ML 46314	Producing
176	4301530472	CLAWSON SPRING ST F-2	NESE	3	16S	8E	State	ST UT ML 48515	Producing
177	4301530473	CLAWSON SPRING ST F-1	SENE	3	16S	8E	State	ST UT ML 48514	Producing
178	4301530474	CLAWSON SPRING ST E-6	SESW	7	16S	9E	State	ST UT ML 48220-A	Producing
179	4301530475	CLAWSON SPRING ST G-2	NESW	2	16S	8E	State	ST UT ML 46314	Producing
180	4301530488	CLAWSON SPRING ST M-1	NWNE	2	16S	8E	State	ST UT ML 47561	Producing
181	4301530489	CLAWSON SPRING ST K-1	SESE	2	16S	8E	State	ST UT ML 46043	Producing